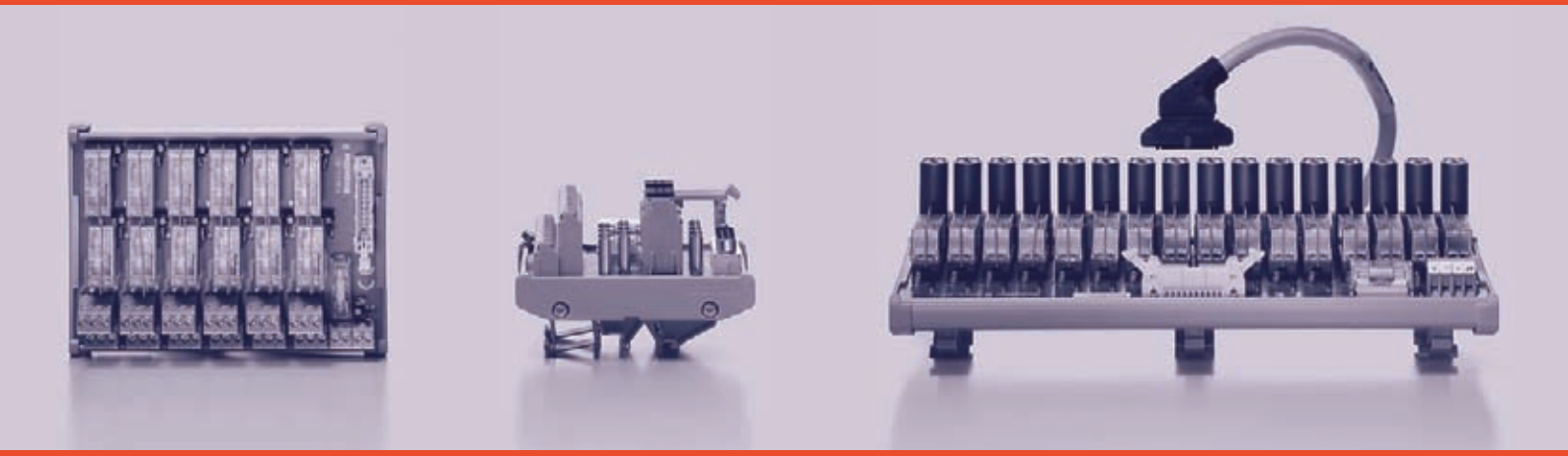
CATALOG 4.5 NORTH AMERICA



Interface Units and PLC Solutions

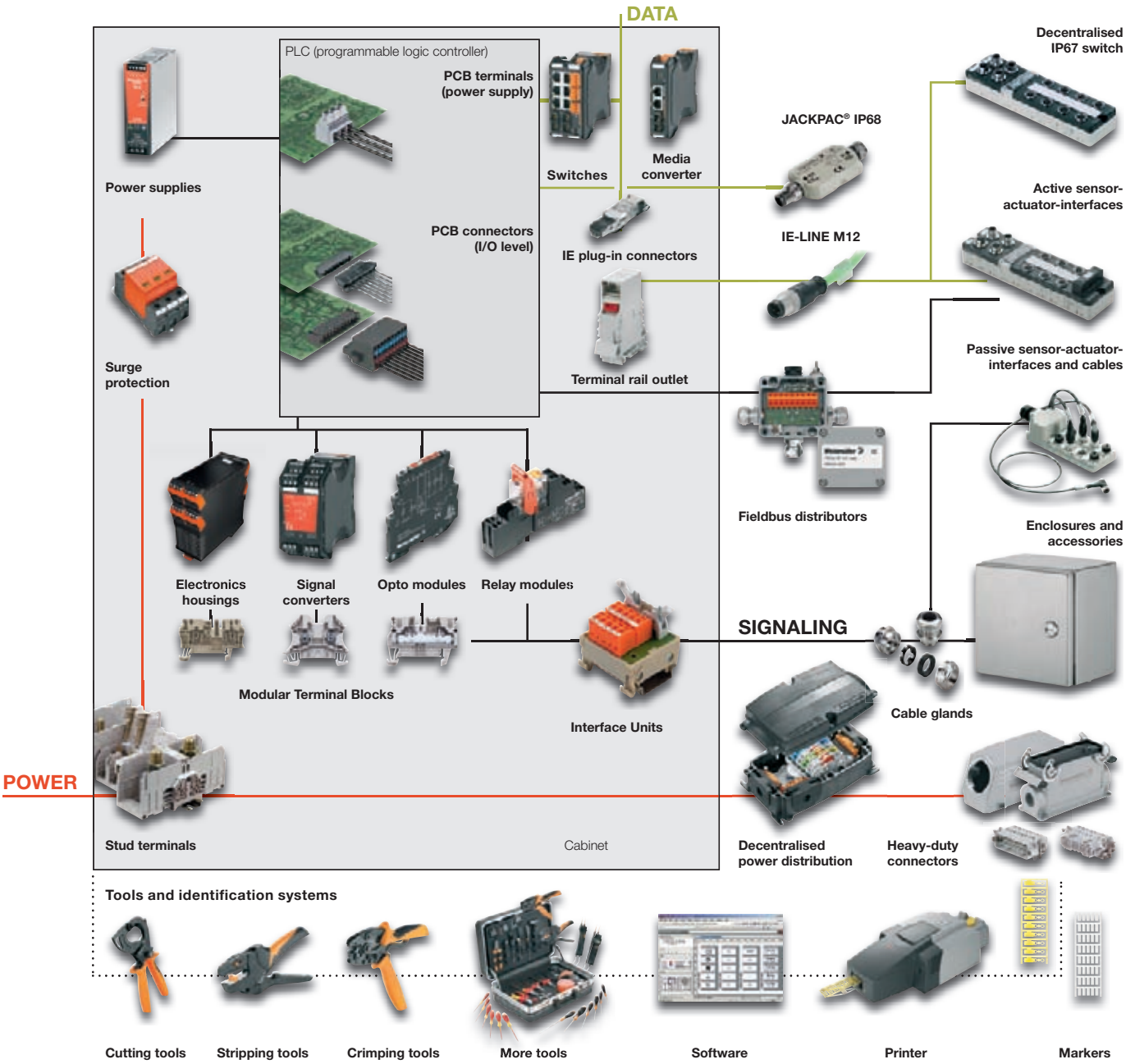
Catalog

Weidmüller

Product Portfolio

Power
Signal
Data

Weidmüller positions itself worldwide successfully on a sustained basis as the leading provider of solutions for electrical connectivity, transmission and conditioning of power, signal and data in industrial environments.
The company develops, produces and sells products in the field of electrical connectivity and electronics. **www.power-signal-data.com**



Interface Units and PLC Solutions

Interface Units and PLC Solutions

Interface Units

PLC Interfaces – H-, R- and S-System

Byte Precabling Solution

Appendix

Weidmuller Service

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Search according to Type or order numbers, Addresses worldwide

Interface Units and PLC Solutions

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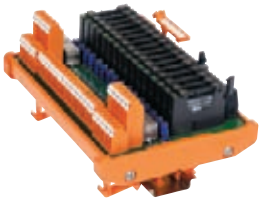

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Interface Units

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Weidmuller interface units

Given the need to reduce costs in electrical cabinet construction, interface units offer an alternative to wiring concepts with point-to-point wiring. The prime function of interface units is to act as a trouble-free adapter element between standardized plug connectors and point-to-point wiring or other connection systems.

Interface units consist of the following individual components:
- Extruded profile for inserting the PCB
- End plates for fitting on the mounting rail
- Clip-on feet for locking on standardized mounting rails TS 32 and TS 35
- PCB with connecting and indicating elements, DIN plug connectors and ample marking facilities for equipment identification

The plug connectors used for the interface units can be divided into the following groups:
- Plug connector to IEC 603-1/DIN 41651
- Sub-miniature plug connectors (SUB-D) to IEC 807-2/ DIN 41652
- Plug connectors for PCBs to IEC 603/DIN 41612 and DIN 41615
- ELCO plug connectors for hazardous area applications

Advantages of the interface units:
- Two- and three-tier PCB terminals save space
- Conventional point-to-point wiring only needed on one side, thus saving costs
- Greater safety, preventing wiring errors
- Optional: status LED on the interface units
- Rapid troubleshooting with additional test and measuring devices
- Simplified setup and documentation

Interface units let users implement pioneering concepts in switchboard design with potential for rationalization. Customized wiring concepts can also be solved rationally through the use of special interface units.

Pre-assembled leads with the corresponding plug connector systems are used as the connection between the series-connected controller and the interface unit. This provides the greatest savings for the user. The use of interface units reduces the individual circuitry, which reduces labor and installation time and also hidden costs, in particular a reduction material costs following a reduction in the number of individual cables and leads, cable ducts, terminals and terminal blocks required. The transition to point-to-point wiring takes place directly at the interface element.

Users have a choice between screw, tension clamp or spade connections for connecting actuators and/or sensors. As an option, interface units can also integrate additional functions such as status indicator, signal disconnector, fuses or shielding. Identification systems make it easier to trace the signals to the corresponding element.

RSF interface units for pre-assembled leads with plug connectors to IEC 603-1/DIN 41651

Passive interface for 10 … 64 signals for adapting pre-assembled leads with plug connectors to IEC 603-1 / DIN 41651 to screw or tension clamp connection systems.

When used in combination with a status indicator (LED), this guarantees rapid information about the switching state of incoming and outgoing signals.

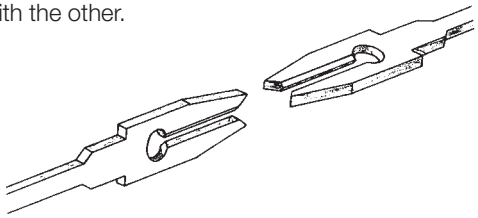
RSSD interface units for pre-assembled leads with SUB-D plug connectors to IEC 807-2/DIN 41652

Passive interface unit for 9 … 50 signals for adapting pre-assembled leads with SUB-D plug to IEC 807-2/DIN 41652 to screw or tension clamp connection systems.

The components are supplied with either female or male connectors. A spacer block between plug connector and PCB cushions the mechanical forces occurring between the connected cables. RSSD interface units can be supplied with an ground terminal for shielded leads as an optional feature.
An additional test point simplifies testing and measuring during initial setup and when servicing the system.

RS ELCO interface units for pre-assembled leads with hermaphrodite plug connector system

Weidmuller's passive interface units are used for adapting hermaphrodite ELCO multi-pole connectors, for input and output, to screw terminal systems. The hermaphrodite contact is a fork-type contact that is identical in design on both sides of the connection, but with one fork turned through 90° to engage with the other.



RS VERT interface units as voltage distributor

Passive interface units for the distribution of dc supply voltage. These interface units are available in three designs for distribution to 8, 16 and 72 connections, for positive and negative voltages in each case:

- 8x and 16x distributor just 45 mm wide overall, 72x distributor 100 mm wide
- Fed by two connection elements for positive and negative voltages in each case
- Fits on TS32/35 mounting rails

RS VERT voltage distributors can also be used in small enclosures and provide clearly organized distribution.

RS RJ45 interface units for connecting data lines

The RS RJ45 interface module offers the user a convenient, easy-to-use interface for connecting modems, notebooks and other office equipment in the electrical cabinet.

The module converts the standard RJ45 connection to a screw terminal system or acts as a coupling to connect data leads by means of two RJ45 sockets. For data transmission rates of up to 100 Mbps, it is advisable to connect one end of the shield of the data cable to a protective ground. The interface modules can be fitted on TS 32/35 mounting rails.

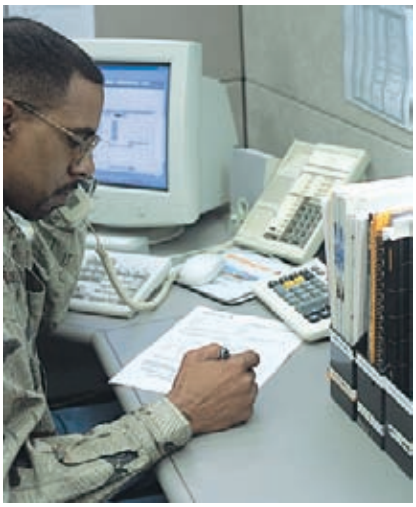
Weidmuller Custom Solutions

It's a Matter of Getting what you need

Our design team works closely with you each step of the way.

Custom Design and Engineering – Designed for Your Application

Great ideas for new products and new applications often push companies into uncharted territory, where existing interface products fall short of their design requirements.



Our goal is to provide you with the most responsive service possible.

Weidmuller has an unparalleled record of innovation in interface products extending back over 50 years – and we're happy to make this expertise available to you through our custom engineering services, which include both the design and the manufacture of tailor-made interface products. Whether it's PCB terminal blocks and connectors, DIN-rail terminal blocks, controller front panel adapters or controller interface products, we will work with you to create a custom solution that meets your needs – exactly.

And because our success at Weidmuller rests on long-term relationships, we welcome opportunities to partner with you to create the products you need.

Weidmuller is your best source for PCB terminal blocks and connectors, DIN-rail terminal blocks, controller front panel adapters and interface products that meet your application needs precisely. We work with you to manage the process carefully to ensure timely delivery and complete satisfaction.

With Weidmuller's expertise in custom solutions, there is no need to compromise.

Final design drawings are developed for review and approval.

We work with you to pinpoint schedule and delivery requirements.

1) Getting it Right from the Start

Once an application is identified, we mobilize our design team immediately. We work with you to pinpoint your design specifications, delivery and scheduling requirements.

As part of this effort, we establish an open line of communication between you and a designated point person for your project. Expert technical support is also available all the way through the project to address issues that arise during the design and manufacturing process.

2) Building Relationships Before Building the Product

At Weidmuller, we place a premium on building long-term customer relationships. We will explain our custom design and engineering process in detail, and, as needed, partner with you to meet your needs for custom products.

3) Offering Alternatives

One of the advantages of working with Weidmuller is the depth of our product design and manufacturing experience. You can count on us to carefully review the special requirements for your application and, if necessary, present several approaches and to compare the advantages of each one.

4) Developing Final Drawings and Models

At Weidmuller, we want to make absolutely sure that a custom product design meets your requirements. Using the latest CAD technology, we create final design drawings and stereolithographic models, as appropriate.

5) Establishing Time Frames

Upon your approval, we begin the tooling process, schedule production, and set delivery dates based on the needs of your application. Our Fastrack Custom Solutions can accelerate the custom design and engineering process even further. In many cases, we will produce conceptual drawings for you within two days of project agreement.

OUR FASTRACK CUSTOM SOLUTIONS ARE THE RIGHT TRACK FOR YOUR PRODUCT DEVELOPMENT NEEDS WHEN:

- **Standard products won't meet your unique application need**
- **You need a design partner to offer innovative alternatives and solutions**
- **You need a truly innovative product to put you ahead of the competition**
- **Market pressures dictate a fast turnaround on a custom product design**

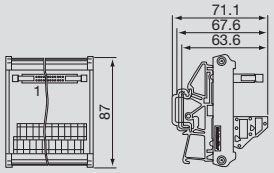
Fastrack CUSTOM SOLUTIONS

Interface Units IEC 603-1 - DIN 41651 (Ribbon Connector)

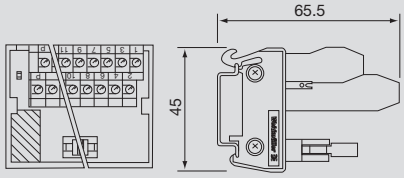
Interface units IEC 603-1 DIN 41651 (Ribbon connector)

- Pin connector with locking feature to IEC 603-1
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

RSF Z/ IEC 603-1



RSF S 45 mm/ IEC 603-1



Technical data

Connection data			
Connection on process side		PCB terminal LM2NZF / Tension clamp	PCB terminal LPK 2 H / Screw connection
Stripping length		7.0 mm	7.0 mm
Connection on control side		Plug-in connector to IEC 603-1/ DIN 41651	Plug-in connector to IEC 603-1/ DIN 41651
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Test voltage (~eff)		1.0 kV	1.0 kV
Test torque			0.40 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail			TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87.0 x — x 64.0	45.0 x — x 65.5
Note			

Ordering data

	Type	Width	Order No.	Type	Width	Order No.
10-pole	RS F10 Z	50.0 mm	**8537190000**	RS F10 LPK 2H/12	49.0 mm	**8155610000**
14-pole	RS F14 Z	50.0 mm	**8537200000**	RS F14 LPK 2H/16	56.0 mm	**8258980000**
16-pole				RS F16 LPK 2H/18	64.0 mm	**8265540000**
20-pole	RS F20 Z	65.0 mm	**8537110000**	RS F20 LPK 2H/22	71.0 mm	**8155600000**
26-pole	RS F26 Z	80.0 mm	**8537180000**	RS F26 LPK 2H/28	86.0 mm	**8213470000**
34-pole	RS F34 Z	110.0 mm	**8537130000**	RS F34 LPK 2H/36	106.0 mm	**8155590000**
40-pole	RS F40 Z	115.0 mm	**8537140000**	RS F40 LPK 2H/42	121.0 mm	**8155580000**
50-pole	RS F50 Z	145.0 mm	**8537150000**	RS F50 LPK 2H/52	150.3 mm	**8155570000**
60-pole				RS F60 LPK 2H/62	180.0 mm	**8259000000**
64-pole				RS F64 LPK 2H/66	186.0 mm	**8155550000**
Note						

Accessories

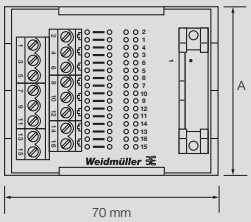
Note

For ribbon cable connections according to UL 508A recognition or with accessory holes

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male connector block with interlock for female connector block with strain relief according to DIN 41 651/Parts 1 and 2
- Available with screw connection

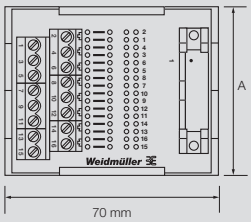
RI-IDC

Cable interface units for ribbon cables
Screw connection
Male Standard



RI-IDC

Cable interface units for ribbon cables
Screw connection
Male with accessory holes



Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		Ribbon connector	Ribbon connector
Rated data			
Rated voltage		125 V	125 V
Rated current per contact		1 A	1 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)

Poles	Dim. A	Dim. B	Dim. C	Dim. D
10	39.88 (1.57)	50 (1.97)	49 (1.93)	40 (1.57)
14	49.78 (1.96)	50 (1.97)	56 (2.20)	45 (1.77)
16	55.12 (2.17)	55 (2.17)	64 (2.52)	50 (1.97)
20	64.77 (2.55)	65 (2.56)	71 (2.80)	50 (1.97)
26	84.84 (3.34)	80 (3.15)	86 (3.39)	55 (2.17)
30	94.74 (3.73)			
34	104.65 (4.12)	110 (4.33)	106 (4.17)	70 (2.76)
40	120.14 (4.73)	115 (4.53)	121 (4.76)	80 (3.15)
50	142.49 (5.60)	145 (5.71)	151 (5.94)	95 (3.74)
60	175.01 (6.89)	180 (7.09)	180 (7.09)	115 (4.53)
64	181.61 (7.15)	180 (7.09)	186 (7.32)	120 (4.72)

On TS 35 x 7.5

Type	Order No.
UL 508A—Male standard	
RI-IDC 10	**915911**
RI-IDC 14	**915912**
RI-IDC 16	**915913**
RI-IDC 20	**915914**
RI-IDC 26	**915915**
RI-IDC 30	**915916**
RI-IDC 34	**915917**
RI-IDC 40	**915918**
RI-IDC 50	**915919**
RI-IDC 60	**915920**
RI-IDC 64	**915921**

Type	Order No.
Male w/ accessory holes	
RI-IDC 10	**914890**
RI-IDC 14	**914891**
RI-IDC 16	**914892**
RI-IDC 20	**914893**
RI-IDC 26	**914894**
RI-IDC 30	**914895**
RI-IDC 34	**914896**
RI-IDC 40	**914897**
RI-IDC 50	**914898**
RI-IDC 60	**914899**
RI-IDC 64	**914900**

Accessories

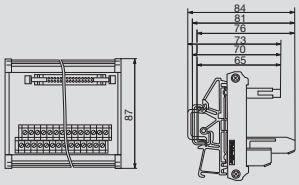
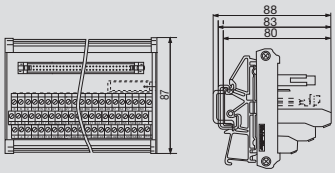
		Type	Order No.
Mounting rail		TS 32	**0122800000**
		TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**
Terminal wire marking		DEK 5	

Type	Order No.
TS 32	**0122800000**
TS 35 x 7.5	**0383400000**
TS 35 x 15	**0498000000**
EWK 2	**0199360000**
EW 35	**0383560000**
DEK 5	

Interface Units IEC 603-1 - DIN 41651 (Ribbon Connector)

Interface units IEC 603-1 DIN 41651 (Ribbon connector)

- Pin connector with locking feature to IEC 603-1
- Screw connection system
- 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

	RSF S/ IEC 603 -1	RSF S/ IEC 603-1
		
		

Technical data

		RSF S/ IEC 603 -1	RSF S/ IEC 603-1
Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP3R
Stripping length		7.0 mm	7.0 mm
Connection on control side		Plug-in connector to IEC 603-1/ DIN 41651	Plug-in connector to IEC 603-1/ DIN 41651
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Test voltage (~eff)		1.0 kV	1.0 kV
Test torque		0.50 Nm	0.50 Nm
Storage temperature		-40 °C...+60 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 32, TS 35	TS 32, TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	87.0 x — x 70.0	87.0 x — x 76.0
Note			

Ordering data

	RSF S/ IEC 603 -1			RSF S/ IEC 603-1		
	Type	**Width**	**Order No.**	**Type**	**Width**	**Order No.**
10-pole	RS F10 LP2N 5/10	50.0 mm	**0224961001**	RS F10 LP3R 3/12	40.0 mm	**8012850000**
14-pole	RS F14 LP2N 5/14	50.0 mm	**0225061001**	RS F14 LP3R 3/14	45.0 mm	**8012860000**
16-pole	RS F16 LP2N 5/16	55.0 mm	**0225161001**	RS F16 LP3R 3/18	50.0 mm	**8012870000**
20-pole	RS F20 LP2N 5/20	65.0 mm	**0224261001**	RS F20 LP3R 3/21	50.0 mm	**8012910000**
26-pole	RS F26 LP2N 5/26	80.0 mm	**0224861001**	RS F26 LP3R 3/27	55.0 mm	**8012920000**
34-pole	RS F34 LP2N 5/34	110.0 mm	**0224361001**	RS F34 LP3R 3/36	70.0 mm	**8012930000**
40-pole	RS F40 LP2N 5/40	115.0 mm	**0224461001**	RS F40 LP3R 3/42	80.0 mm	**8012940000**
50-pole	RS F50 LP2N 5/50	145.0 mm	**0224561001**	RS F50 LP3R 3/51	95.0 mm	**8012950000**
60-pole	RS F60 LP2N 5/60	180.0 mm	**0224661001**	RS F60 LP3R 3/63	115.0 mm	**8012960000**
64-pole	RS F64 LP2N 5/64	180.0 mm	**0224761001**	RS F64 LP3R 3/66	120.0 mm	**8012970000**
Note						

Accessories

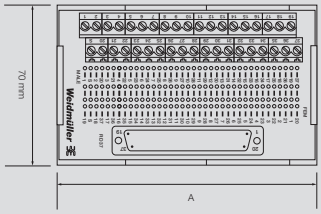
Note

For D-subminiature plug-in connectors according to UL 508A recognition

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male and female connectors with screw/locking system UNC 4/40
- Available with screw connection

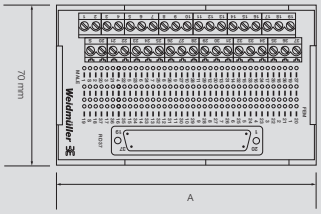
RD

Male connector
Standard



RD

Female connector
Standard



Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		Sub-D	Sub-D
Rated data			
Rated voltage		150 V	150 V
Rated current per contact		1.5 A	1.5 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)

Poles	Cable Connector Retainer*	Dim. A
9	Screw	39.88 (1.57)
9	Jackscrew	39.88 (1.57)
15	Screw	55.12 (2.17)
15	Jackscrew	55.12 (2.17)
25	Screw	85.09 (3.35)
25	Jackscrew	85.09 (3.35)
37	Screw	116.84 (4.60)
37	Jackscrew	116.84 (4.60)
50	Screw	149.35 (5.88)
50	Jackscrew	149.35 (5.88)
On TS 35 x 7.5		

Type	Order No.
UL 508A—Male standard	
RD-9	**915933**
RD-9JS	**915935**
RD-15	**915958**
RD-15JS	**915941**
RD-25	**915947**
RD-25JS	**915949**
RD-37	**915954**
RD-37JS	**915956**
RD-50	**919658**
RD-50JS	**919656**

Type	Order No.
UL 508A—Female standard	
RD-9	**915934**
RD-9JS	**915936**
RD-15	**915940**
RD-15JS	**915942**
RD-25	**915948**
RD-25JS	**915953**
RD-37	**915955**
RD-37JS	**915957**
RD-50	**919657**
RD-50JS	**919655**

Accessories

		Type	Order No.	Type	Order No.
Mounting rail		TS 35 x 7.5	**0383400000**	TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**	TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**	EW 35	**0383560000**
Terminal wire marking		DEK 5		DEK 5	

Note :

*Cable connector retainer has either a jackscrew receptacle for a thumb screw or has a mounted screw in the module cable connector.

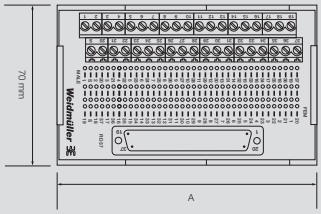
Interface Units IEC 807-2 - DIN 41652 (Sub-D Connector)

For D-subminiature plug-in connectors with accessory holes

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male and female connectors with screw/locking system UNC 4/40
- Available with screw connection

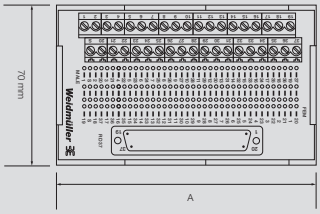
RD

Male connector
with accessory holes



RD

Female connector
with accessory holes



Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		Sub-D	Sub-D
Rated data			
Rated voltage		150 V	150 V
Rated current per contact		1.5 A	1.5 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)

Poles	Cable Connector Retainer*	Dim. A
9	Screw	39.88 (1.57)
9	Jackscrew	39.88 (1.57)
15	Screw	55.12 (2.17)
15	Jackscrew	55.12 (2.17)
25	Screw	85.09 (3.35)
25	Jackscrew	85.09 (3.35)
37	Screw	116.84 (4.60)
37	Jackscrew	116.84 (4.60)
50	Screw	149.35 (5.88)
50	Jackscrew	149.35 (5.88)

On TS 35 x 7.5

Type	Order No.
Male w/ accessory holes	
RD-9	**912385**
RD-9JS	**910638**
RD-15	**912395**
RD-15JS	**910644**
RD-25	**912405**
RD-25JS	**910648**
RD-37	**913155**
RD-37JS	**910642**
RD-50	**911883**
RD-50JS	**911884**

Type	Order No.
Female w/ accessory holes	
RD-9	**912380**
RD-9JS	**910641**
RD-15	**912390**
RD-15JS	**912393**
RD-25	**912400**
RD-25JS	**910645**
RD-37	**910075**
RD-37JS	**910640**
RD-50	**911885**
RD-50JS	**911886**

Accessories

Mounting rail			
End bracket	for TS 32	TS 35 x 7.5 **0383400000**	TS 35 x 7.5 **0383400000**
	for TS 35	TS 35 x 15 **0498000000**	TS 35 x 15 **0498000000**
Terminal wire marking		EWK 2 **0199360000**	EWK 2 **0199360000**
		EW 35 **0383560000**	EW 35 **0383560000**
		DEK 5	DEK 5

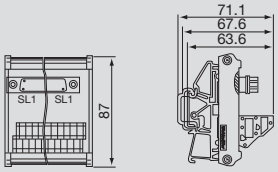
Note :

*Cable connector retainer has either a jackscrew receptacle for a thumb screw or has a mounted screw in the module cable connector.

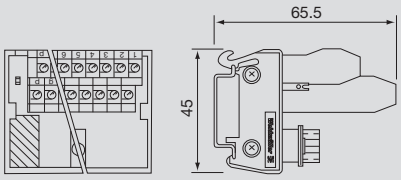
Interface units IEC 807-2 DIN 41652 (Sub-D connector)

- Pin and socket connector with screw locking system UNC 4/40
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

RSSD Z/ SUB-D



RSSD S/ SUB-D



Technical data

Connection data			
Connection on process side		PCB terminal LM2NZF / Tension clamp	PCB terminal LPK 2 H / Screw connection
Stripping length		7.0 mm	7.0 mm
Connection on control side		D-SUB acc. IEC 807-2	D-SUB acc. IEC 807-2
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		125 V AC/ 150 V DC	125 V AC/ 150 V DC
Rated current per connection		1.5 A	1.5 A
Test voltage (~eff)		0.6 kV	0.6 kV
Test torque			0.40 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 - TS 32	TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87.0 x — x 63.6	45.0 x — x 65.5
Note			

Ordering data

		Type	Width	Order No.	Type	Width	Order No.
Male connectors	9-pole	RS SD9 SZ	45.0 mm	**8537260000**	RS SD9S UNC LPK2	50.0 mm	**8259010000**
Male connectors	15-pole	RS SD15 SZ	60.0 mm	**8537390000**	RS SD15S UNC LPK2	61.0 mm	**8233350000**
Male connectors	25-pole	RS SD25 SZ	80.0 mm	**8537370000**	RS SD25S UNC LPK2	86.0 mm	**8155650000**
Male connectors	37-pole	RS SD37 SZ	110.0 mm	**8537240000**	RS SD37S UNC LPK2	116.0 mm	**8155660000**
Male connectors	50-pole	RS SD50 SZ	145.0 mm	**8537350000**	RS SD50S UNC LPK2	154.0 mm	**8155670000**
Female connectors	9-pole	RS SD9 BZ	45.0 mm	**8537320000**	RS SD9B UNC LPK2	50.0 mm	**8216480000**
Female connectors	15-pole	RS SD15 BZ	60.0 mm	**8537400000**	RS SD15B UNC LPK2	61.0 mm	**8209730000**
Female connectors	25-pole	RS SD25 BZ	80.0 mm	**8537380000**	RS SD25B UNC LPK2	86.0 mm	**8155620000**
Female connectors	37-pole	RS SD37 BZ	110.0 mm	**8537250000**	RS SD37B UNC LPK2	116.0 mm	**8155630000**
Female connectors	50-pole				RS SD50B UNC LPK2	154.0 mm	**8155640000**

Note

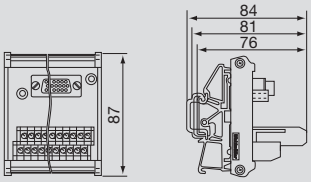
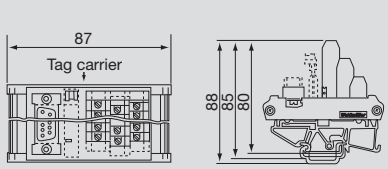
Accessories

Note

Interface Units IEC 807-2 - DIN 41652 (Sub-D Connector)

Interface units IEC 807-2 DIN 41652 (Sub-D connector)

- Pin and socket connector with screw locking system UNC 4/40
- PCB connection element with screw connection
- Clip-on foot for mounting on TS32, TS35 x 7.5 and TS35 x 15

	RSSD S/ SUB-D	RSSD S/ SUB-D
		
		

Technical data

		RSSD S/ SUB-D	RSSD S/ SUB-D
Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP3R
Stripping length		7.0 mm	7.0 mm
Connection on control side		D-SUB acc. IEC 807-2	D-SUB acc. IEC 807-2
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		125 V AC/ 150 V DC	125 V AC/ 150 V DC
Rated current per connection		1.5 A	1.5 A
Test voltage (~eff)		0.6 kV	0.6 kV
Test torque		0.50 Nm	0.50 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 32, TS 35	TS 32, TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	87.0 x — x 76.0	87.0 x — x 80.0
Note			

Ordering data

		Type	Width	Order No.	Type	Width	Order No.
Male connectors	9-pole	RS SD9S UNC 4.40 LP2N	45.0 mm	**8003901001**	RS SD9S LP3R	40.0 mm	**8019930000**
Male connectors	15-pole	RS SD15S UNC 4.40	60.0 mm	**8005201001**	RS SD15S LP3R	45.0 mm	**8019940000**
Male connectors	25-pole	RS SD25S UNC 4.40 LP2N	80.0 mm	**8005181001**	RS SD25S LP3R	60.0 mm	**8019950000**
Male connectors	37-pole	RS SD37S UNC 4.40 LP2N	110.0 mm	**8003881001**	RS SD37S LP3R	80.0 mm	**8019960000**
Male connectors	50-pole	RS SD50S UNC 4.40 LP2N	154.0 mm	**8005161001**	RS SD50S LP3R	100.0 mm	**8019970000**
Female connectors	9-pole	RS SD9B UNC 4.40 LP2N	45.0 mm	**8003911001**	RS SD9B LP3R	40.0 mm	**8019880000**
Female connectors	15-pole	RS SD15B UNC 4.40 LP2N	60.0 mm	**8005211001**	RS SD15B LP3R	45.0 mm	**8019890000**
Female connectors	25-pole	RS SD25B UNC 4.40 LP2N	80.0 mm	**8005191001**	RS SD25B LP3R	60.0 mm	**8019900000**
Female connectors	37-pole	RS SD37B UNC 4.40 LP2N	110.0 mm	**8003891001**	RS SD37B LP3R	80.0 mm	**8019910000**
Female connectors	50-pole	RS SD50B UNC 4.40 LP2N	154.0 mm	**8005171001**	RS SD50B LP3R	100.0 mm	**8019920000**
Note							

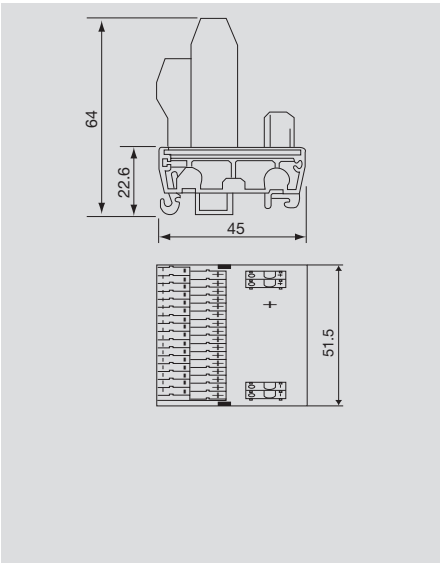
Accessories

Note

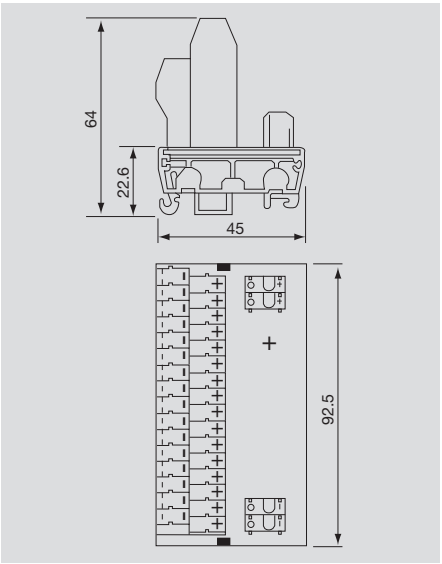
Supply voltage distributor modules

- Distibution module for 2 supply connections to 8 or 16 potential distribution terminals
- 45 mm wide
- Potential distributor designed as two level connection element
- Total current max. 10 A
- For mounting on rail TS35 x 7.5 and TS35 x 15

RS VERT 8 LPK2



RS VERT 16 LPK2



Technical data

		RS VERT 8 LPK2	RS VERT 16 LPK2
Connection data			
Connection on process side		PCB terminal LPK 2/ Screw connection	PCB terminal LPK 2 / Screw connection
Stripping length		7.0 mm	7.0 mm
Conversion PCB/plug connector		8-way supply voltage distributor +/- / 2-pole feed	16-way supply voltage distributor +/- / 2-pole feed
Rated data			
Rated voltage		24 V AC/DC	24 V AC/DC
Total current feed, max.		10 A	10 A
Electrical distribution, plus/minus		+/- potential	+/- potential
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Ambient temperature (operational)		0 °C…+55 °C	0 °C…+55 °C
Housing/Terminal rail		RS 45 section /TS 35	RS 45 section /TS 35
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	45 x 51.5 x 64	45 x 92.5 x 64
Note			

Ordering data

Type	Qty.	Order No.
RS VERT8 LPK2	1	8252010000

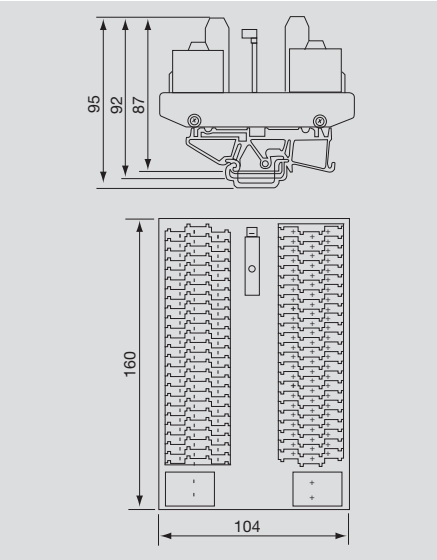
Type	Qty.	Order No.
RS VERT16 LPK2	1	8234620000

Note

Supply voltage distributor modules

- Distibution module for 2 supply connections to 72 potential distribution terminals
- Potential distributor designed as three level connection element
- Total current max. 20 A
- For mounting on rail TS 32/35

RS VERT 144 LPK3



Technical data

Connection data		
Connection on process side		PCB terminal LPK 3 / Screw connection
Stripping length		7.0 mm
Conversion PCB/plug connector		72-way supply voltage distributor +/- / 2-pole feed
Rated data		
Rated voltage		250 V AC/DC
Total current feed, max.		20 A
Electrical distribution, plus/minus		+/- potential
Storage temperature		-40 °C…+60 °C
Ambient temperature (operational)		0 °C…+55 °C
Housing/Terminal rail		RS 100 section /TS 32, TS 35
Insulation coordination (EN 50178)		
Surge category/Pollution severity		III /2
Dimensions		
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5
Length x width x height	mm	104 x 160 x 87
Note		

Ordering data

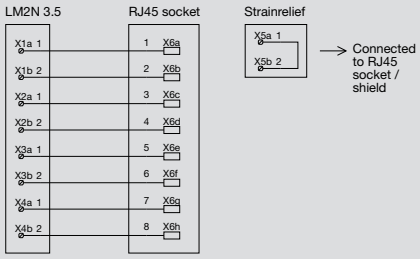
Type	Qty.	Order No.
RS LPK3/144 VERT	1	**8199510000**

Note

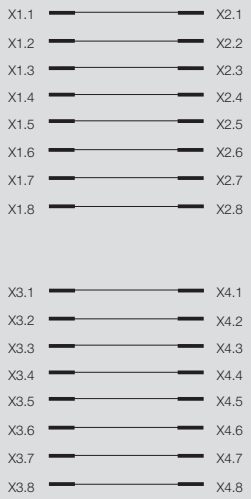
Interface units with RJ45 plug connectors

- Direct coupling of PC and modem in control cabinet
- Connection of typical office equipment
- Data rate Cat5 100 Mbit
- Available as RJ 45/screw connection conversion or as RJ 45 coupling
- For mounting on rail TS 32/35

RS RJ45



RS RJ45 2WAY



Technical data

Connection data			
Connection on process side		screw connection/ RJ45 plug-in connector	2 x RJ45 connector
Connection on control side		screw connection/ RJ45 plug-in connector	2 x RJ45 connector
Design		RJ45 female connector	RJ45 female connector
Conversion PCB/plug connector		1:1	1:1, RJ45 coupling
Rated data			
Rated current per connection		1.5 A	1.5 A
Number of signals		8 shielded	8 shielded
Contact material		phosphor- bronze 6µ AU	phosphor- bronze 6µ AU
Storage temperature		-40 °C…+70 °C	-40 °C…+70 °C
Ambient temperature (operational)		0 °C…+55 °C	0 °C…+55 °C
Housing		RS 70 section	RS 70 section
Terminal rail		TS 32, TS 35	TS 32, TS 35
Insulation coordination (EN 50178)			
Surge category/Pollution severity		II /2	II /2
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 1.5	
Length x width x height	mm	70 x 30 x 48	70 x 38 x 48
Note		Connect shielding of data line to protective ground at one end	Connect shielding of data line to protective ground at one end

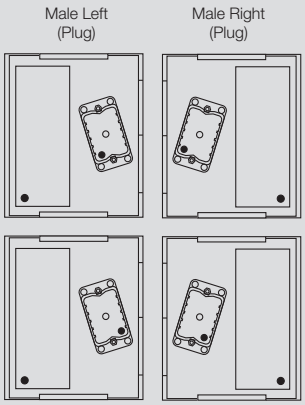
Ordering data

Type	Qty.	Order No.
RS RJ45	10	**8611320000**
RJ 4A		**912171**
RJ 6A		**911915**
RJ 8A		**911916**

Type	Qty.	Order No.
RS RJ45 2WAY	1	**8555440000**

Note

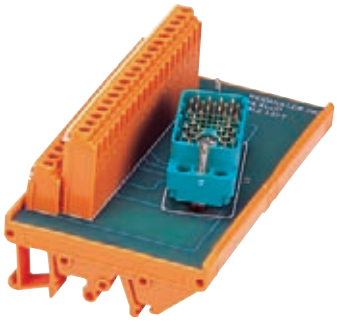
Cable interface units designed according to UL 508A recognition

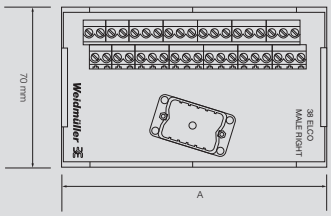


• = Terminal "A" for ELCO connector and field wiring terminal block.

ELCO

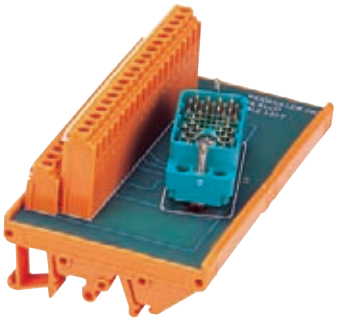
Male connector
Standard

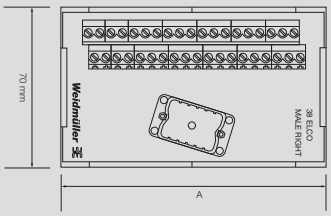




ELCO

Female connector
Standard





Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		ELCO	ELCO
Rated data			
Rated voltage		125 V	125 V
Rated current per contact		3.5 A	3.5 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)				Type	Order No.	Type	Order No.
Poles	Cable Connector Orientation*	Connector Retainer	Dim. A	Male		Female	
38	Left	Center Screw	119.63 (4.71)	RS-ELCO 38 M/L	**912126**	RS-ELCO 38 F/L	**912128**
38	Right	Center Screw	119.63 (4.71)	RS-ELCO 38 M/R	**912127**	RS-ELCO 38 F/R	**912129**
56	Left	Center Screw	174.75 (6.88)	RS-ELCO 56 M/L	**912131**	RS-ELCO 56 F/L	**912133**
56	Right	Center Screw	174.75 (6.88)	RS-ELCO 56 M/R	**912132**	RS-ELCO 56 F/R	**912134**

Accessories

		Type	Order No.	Type	Order No.
Mounting rail		TS 32	**0122800000**	TS 32	**0122800000**
		TS 35 x 7.5	**0383400000**	TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**	TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**	EW 35	**0383560000**

Note :
*The purpose for the different designations, "left" and "right" are relative to the direction the interconnecting cable is plugged into the interface module. ELCO connector cables generally use #14 AWG wire which does not bend easily.

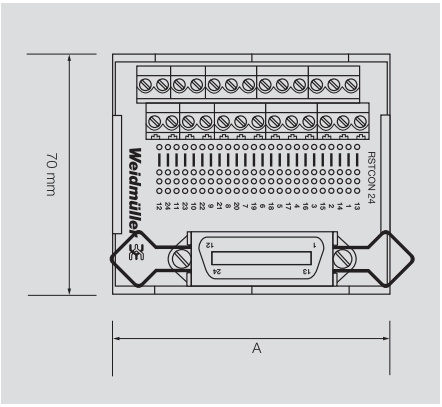
The angled connector reduces the side load torque on the cable connector and printed circuit board by guiding the cable on an angle to the wire duct.

Designates plug (S – male) or socket (B – female) connector on the interface module.

Multi-pole cable connector for SCSII applications

T-CON

Female connector
with accessory holes



Technical data

Connection data		
- Process side		Screw connection
- Type		LP2N terminal
- Control side		Plug connection
- Type		T-Con
Rated data		
Rated voltage		60 V
Rated current per contact		100 mA
Operating temperature		-25°C…+50°C
Storage temperature		-40°C…+70°C
Terminal wire size		**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)
Dimensions		
Overall width	mm (in.)	See table, Dim. A

Ordering data

dimensions (mm/in.)			Type	Order No.
Poles	**Connector Retainer**	**Dim. A**		
50	Bale Latch	149.35 (5.88)	RS-TCON 50 AF	**912201**

Accessories

		Type	Order No.
Mounting rail		TS 32	**0122800000**
		TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**

Note :

PLC Interfaces
H-, R- and S-System

PLC Interfaces

Universal Precabling for PLCs	B.2
Selection Guide	B.5
Direct Inputs/Outputs for Digital Cards	B.21
Opto-Decoupled Inputs for Digital Cards	B.39
Relay Outputs for Digital Cards	B.42
Input/Output for Analog Cards	B.54

PLC interface systems

The complexity of machines and installations in industry, processing or building is giving rise to ever-increasing cabling costs. The traditional wire to wire cabling between the PLC and the inputs/outputs is very expensive during installation and commissioning. The PLC interface system offers the user an easy and quick-to-install solution for wiring the inputs and outputs of the SIEMENS SIMATIC® S7.

Special front adapters replace the usual screwed connectors used for the I/O cards of the PLC. The signals from the PLC are sent to the active or passive components by means of a prefabricated lead fitted with a 20-pole female connector.

Wire to wire cabling

Most PLC I/O cards use two types of connection:

- screw,
- tension clamp.

In each case, the signals are connected individually to each connection component.

Disadvantages of wire to wire cabling:

- high assembly costs,
- risk of error increasing with the number of wires connected,
- large amount of space taken up in the cabinet,
- high installation costs,
- a lot of time taken up in preparing and laying the wires,
- a large amount of time taken up in producing wiring diagrams and drawings.

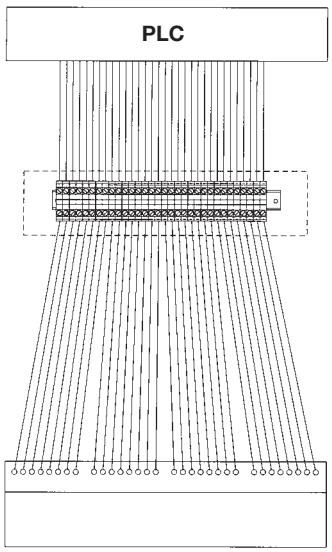
Wiring interface system

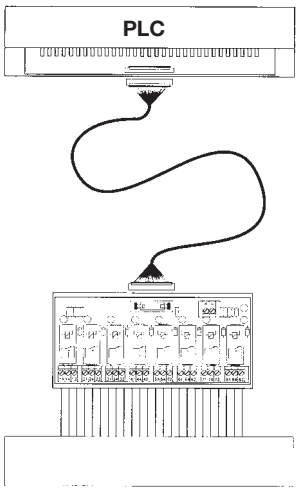
The basic idea is that the PLC's I/O cards are connected to the active or passive I/O modules using prefabricated cables. Front adapters are directly plugged into the PLC's I/O cards. The adapter internally converts the PLC-specific connectors to an HE connector for ribbon cable (in accordance with IEC 603-1/ DIN 41651). The active or passive I/O modules can thus be used independently of the type of PLC.

The wiring interface system has the following advantages over wire to wire cabling:

- minimum wiring costs,
- reduced installation time,
- the commissioning and the production of wiring drawings is simplified.

The family of PLC interface modules allows the inputs/outputs for main PLC manufacturers to be quickly and easily connected.





PLC interface systems

Advantages of the system:

- **Quick**

– reduced design times,
– time saved during installation,
– reduced commissioning and trouble-shooting times,
– reduced on-site wiring times thanks to the prefabricated cables.

- **Reliable**

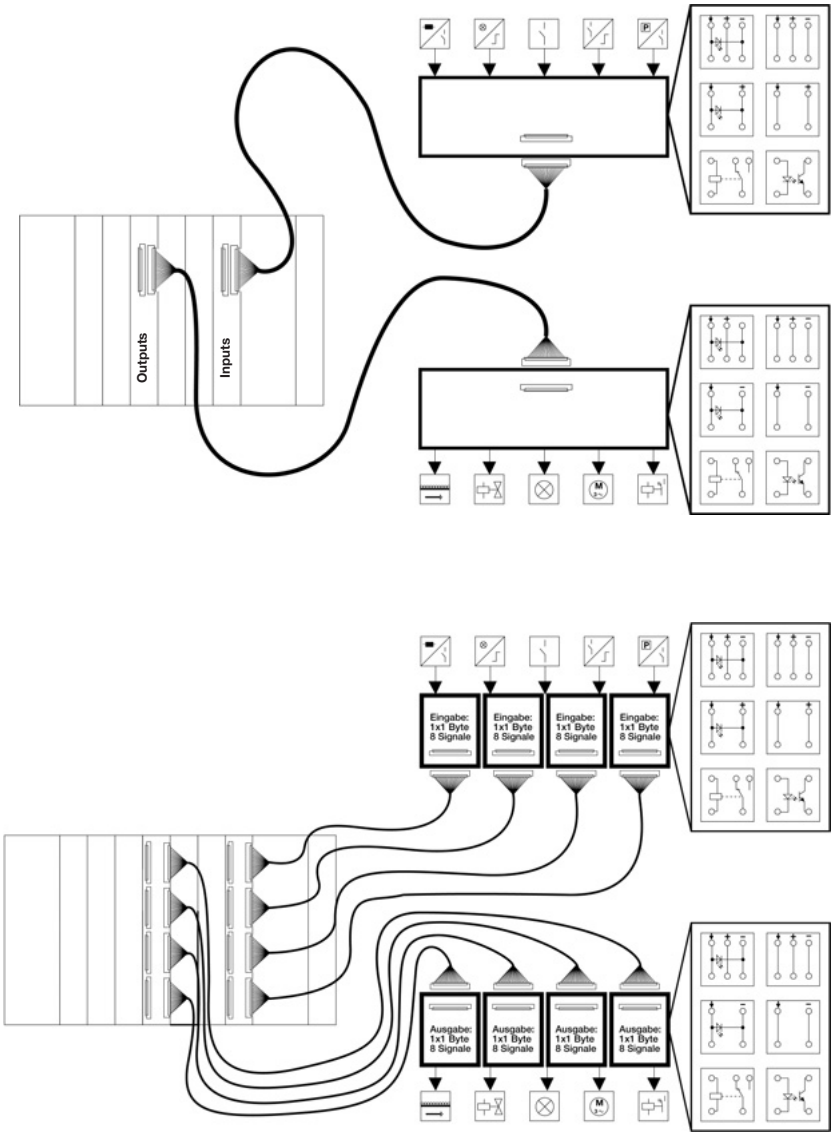
– no wiring errors,
– clear wiring in the cabinet (cable system instead of individual wires),
– labelling corresponding to that of the PLC,
– additional individual labelling.

- **Flexible**

– many input/output modules (about 40 possibilities),
– variable cable lengths,
– modularity of all components,
– configuration of 1 x 4 bytes and 2 x 2 bytes without distributor,
– option to mix functions by byte at the I/Os,
– extensions possible without any problem,
– flexibility thanks to the ease in exchanging input/output interfaces.

- **Takes up only a small amount of space**

– more space in the cable ducts,
– narrow modules,
– no terminal block.



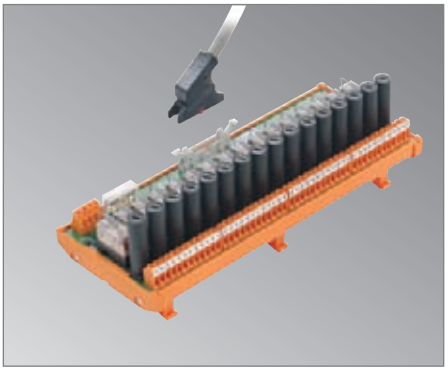
Weidmuller universal precabling for PLCs

System H ...

... screw or tension clamp, standard or compact

Weidmuller's system H was developed for all PLC types and can be adapted to suit all situations. Particularly economic, it is characterized by:

- Connector type HE, 10/20 pins, **fully protected**: extruded-insulation cable, polarized, secure connection
- precabling to PLC – **0.25 mm² (LIYY)**
- connection type selection: **screw or tension clamp**
- **new compact modules**, reducing the size of the cabinet
- Input/output of interface modules boards for digital signals: **4, 8, 12, 16 and 32-channel**



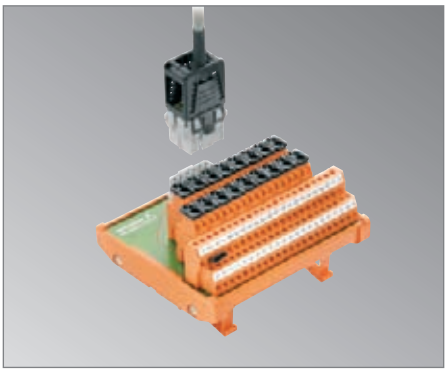
Relay outputs – System H

System R ...

... with the RSV 1.6 industrial connector

Thanks to its industrial connector, system R enables the connection of input signals to a higher voltage of up to 160 V or 250 V.
It is characterized by:

- connector type RSV 1.6 (250 V DC 8 A)
- precabling to PLC – 0.25 mm² (LIYY)
- input/output interface module boards for digital signals 8, 16, 32-channel



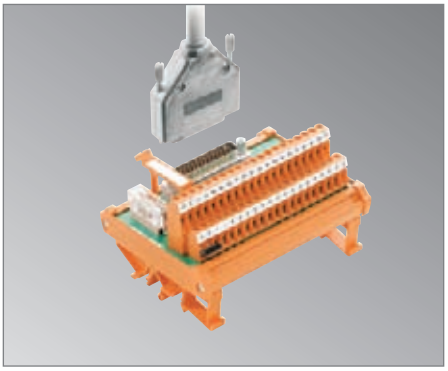
Direct inputs – System R

System S ...

... with shielded Sub-D connector

The sub-d metallic housing is ideal for the transmission of analog signals:

- Connector sub-d female 15, 25, 37 poles
- Precabling to PLC – 0.25 mm² shielded (LYC)
- Input/output interface module boards with PE.



Analog input/outputs – System S

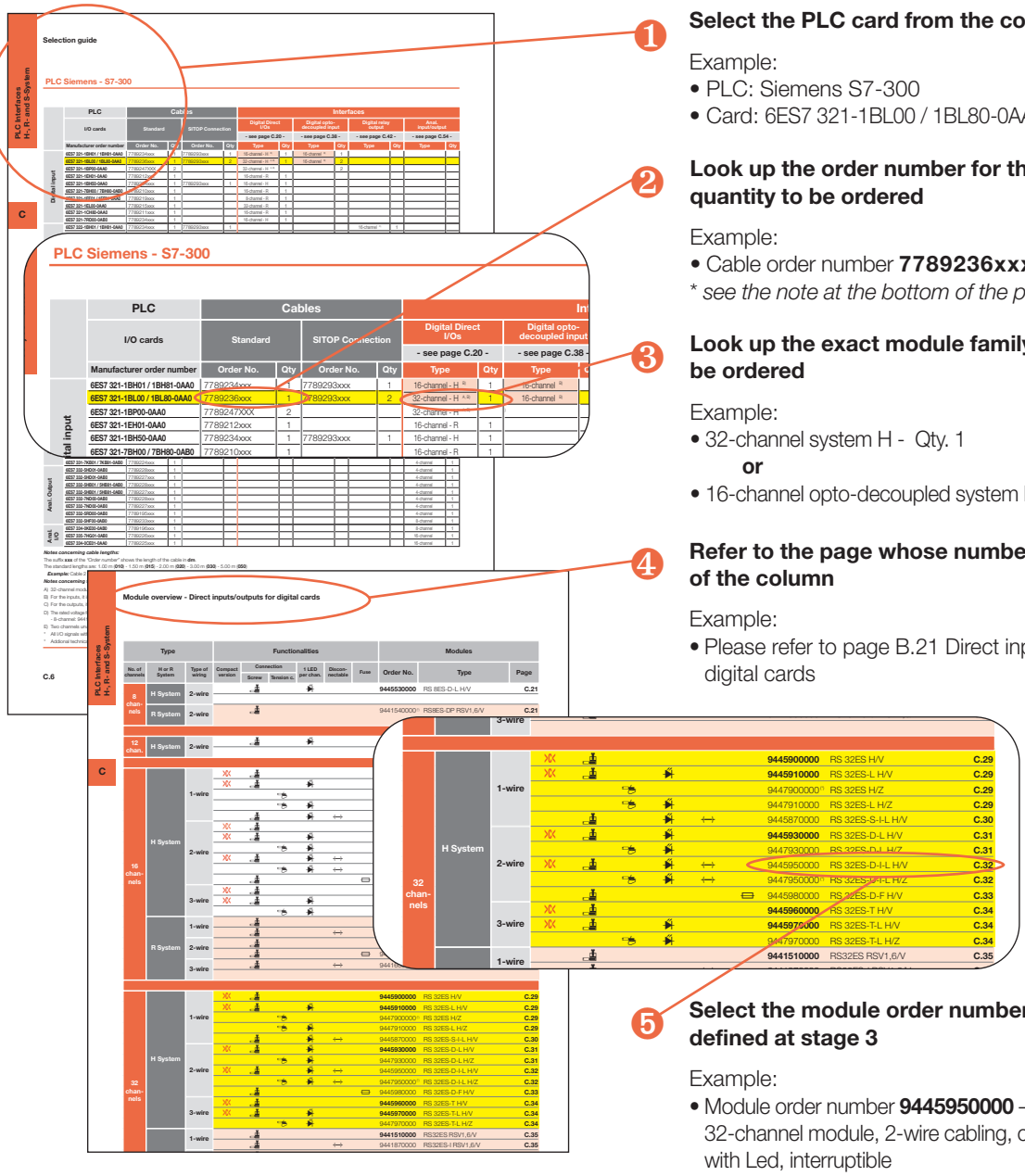
EVEN SIMPLER TO USE …
… thanks to the new "Selection guide" available on CD or download

This new guide available on CD or from our Web site enables you to make rapid searches for interface modules and compatible cables for a PLC and to display the corresponding technical data.

- PLC selection
- I/O card selection
- Displays all interface modules and the compatible cable
- Displays the technical data for the selected interface module and ribbon cable

Download Selection Guide http://www.weidmuller.com

Using the selection guide



1 Select the PLC card from the corresponding table

Example:
- PLC: Siemens S7-300
- Card: 6ES7 321-1BL00 / 1BL80-0AA0

2 Look up the order number for the cable and the quantity to be ordered

Example:
- Cable order number **7789236xxx*** - Qty 1

* *see the note at the bottom of the page*

3 Look up the exact module family and the quantity to be ordered

Example:
- 32-channel system H - Qty. 1

or
- 16-channel opto-decoupled system H - Qty. 2

4 Refer to the page whose number is given at the top of the column

Example:
- Please refer to page B.21 Direct inputs/outputs for digital cards

5 Select the module order number in the family defined at stage 3

Example:
- Module order number **9445950000** – Qty. 1
  32-channel module, 2-wire cabling, compact, version with Led, interruptible
- Technical characteristics, **page B.33**

* *The suffix xxx in the order number shows the length of the cable in dm. the standard lengths are: 1.00 m (010) - 1.50 m (015) - 2.00 m (020) - 3.00 m (030) - 4.00 m (040) - 5.00 m (050).*

Note: it is also possible to use the catalog type of the cable.

In this case the suffix xxxx of the catalog type shows the length of the cable in cm. The standard lengths are: 1.00 m (0100) – 1.50 m (0150) – 2.00 m (0200) - 3.00 m (0300) – 4.00 m (0400) – 5.00 m (0500)

PLC Siemens - S7-300

	PLC	Cables				Interfaces							
	I/O cards	Standard		SITOP Connection		Digital Direct I/Os		Digital opto-decoupled input		Digital relay output		Analog input/output	
						- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	6ES7 321-1BH01 / 1BH81-0AA0	7789234xxx	1	7789293xxx	1	16-channel - H [B]	1	16-channel [B]	1				
	6ES7 321-1BL00 / 1BL80-0AA0	7789236xxx	1	7789293xxx	2	32-channel - H [A,B]	1	16-channel [B]	2				
	6ES7 321-1BP00-0AA0	7789247xxx	2			32-channel - H [A,B]	2						
	6ES7 321-1EH01-0AA0	7789212xxx	1			16-channel - R	1						
	6ES7 321-1BH50-0AA0	7789234xxx	1	7789293xxx	1	16-channel - H	1						
	6ES7 321-7BH00 / 7BH80-0AB0	7789210xxx	1			16-channel - R	1						
	6ES7 321-1FF01 / 1FF81-0AA0	7789219xxx	1			8-channel - R	1						
	6ES7 321-1EL00-0AA0	7789215xxx	1			32-channel - R	1						
	6ES7 321-1CH80-0AA0	7789211xxx	1			16-channel - R	1						
	6ES7 321-7RD00-0AB0	7789234xxx	1			16-channel - H	1						
Digital output	6ES7 322-1BH01 / 1BH81-0AA0	7789234xxx	1	7789293xxx	1					16-channel [C]	1		
	6ES7 322-1BL00-0AA0	7789236xxx	1	7789293xxx	2					32-channel [A,C]	1		
	6ES7 322-1BP00-0AA0	7789246xxx	2							32-channel [A,C]			
	6ES7 321-1BP50-0AA0	7789246xxx	2							32-channel [A,C]			
	6ES7 322-1EH01-0AA0	7789211xxx	1			16-channel - R	1						
	6ES7 322-1BF01-0AA0	7789239xxx	1							8-channel	1		
	6ES7 322-1FF01 / 1FF81-0AA0	7789219xxx	1			8-channel - R	1						
	6ES7 322-1HF01-0AA0	7789220xxx	1			16-channel - R [D]	1						
	6ES7 322-8BF00-0AB0	7789239xxx	1							8-channel	1		
	6ES7 322-1HH00-0AA0	7789214xxx	1			16-channel - R	1						
	6ES7 322-1EL00-0AA0	7789211xxx	2			16-channel - R	2						
	6ES7 322-1HF10 / 1HF80-0AA0	7789190xxx	1			16-channel - R [D]	1						
	6ES7 322-1CF80-0AA0	7789191xxx	1			8-channel - R	1						
	6ES7 322-5SD00-0AB0	7789192xxx	1			8-channel - H	1						
	6ES7 322-5RD00-0AB0	7789192xxx	1			8-channel - H	1						
Digital I/O	6ES7 323-1BH00 / 1BH80-0AA0	7789237xxx	1			8-channel - H	1			8-channel	1		
	6ES7 323-1BL00-0AA0	7789236xxx	1	7789293xxx	2	16-channel - H	1	16-channel	1	16-channel	1		
	6ES7 312-5BD00-0AB0 (312C)	7789221xxx	1			12-channel - H [E]	1			8-channel [E]	1		
	6ES7 313-6CE00-0AB0 (313C-2DP)	7789222xxx	1			16-channel - H	1			16-channel	1		
	6ES7 313-6BE00-0AB0 (313C-2PtP)	7789222xxx	1			16-channel - H	1			16-channel	1		
Digital and Anal. I/O	6ES7 313-5BE00-0AB0 (313C)	7789222xxx	1			16-channel - H	1			16-channel	1		
		7789223xxx	1			8-channel - H	1					8-channel P	1
	6ES7 314-6CF00-0AB0 (314C-2DP)	7789222xxx	1			16-channel - H	1			16-channel	1		
		7789223xxx	1			8-channel - H	1					8-channel P	1
	6ES7 314-6BF00-0AB0 (314C-2PtP)	7789222xxx	1			16-channel - H	1			16-channel	1		
		7789223xxx	1			8-channel - H	1					8-channel P	1
Anal. Input	6ES7 331-7KF01-0AB0	7789229xxx	1									8-channel	1
	6ES7 331-7NF00-0AB0	7789231xxx	1									16-channel	1
	6ES7 331-7RD00-0AB0	7789193xxx	1									4-channel	1
	6ES7 331-7RD00-0AB0	7789194xxx	1									4-channel	1
	6ES7 331-7SF00-0AB0	7789229xxx	1									8-channel	1
	6ES7 331-7PF00-0AB0	7789230xxx	1									8-channel	1
	6ES7 331-7KB01 / 7KB81-0AB0	7789224xxx	1									4-channel	1
Anal. Output	6ES7 332-5HD01-0AB0	7789228xxx	1									4-channel	1
	6ES7 332-5HD01-0AB0	7789227xxx	1									4-channel	1
	6ES7 332-5HB01 / 5HB81-0AB0	7789228xxx	1									4-channel	1
	6ES7 332-5HB01 / 5HB81-0AB0	7789227xxx	1									4-channel	1
	6ES7 332-7ND00-0AB0	7789228xxx	1									4-channel	1
	6ES7 332-7ND00-0AB0	7789227xxx	1									4-channel	1
	6ES7 332-5RD00-0AB0	7789195xxx	1									4-channel	1
	6ES7 332-5HF00-0AB0	7789233xxx	1									8-channel	1
Anal. I/O	6ES7 334-0KE00-0AB0	7789196xxx	1									8-channel	1
	6ES7 335-7HG01-0AB0	7789226xxx	1									16-channel	1
	6ES7 334-0CE01-0AA0	7789225xxx	1									16-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example: Cable 2 meters in length: *Order number*: 7789236**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

E) Two channels unused

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Siemens - S7-400

	PLC	Cables				Interfaces							
	I/O cards	Standard		SITOP Connection		Digital Direct I/Os		Digital opto-decoupled input		Digital relay output		Analog input/output	
						- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	6ES7 421-1BL00-0AA0	7789292xxx	1	7789293xxx	2	32-channel - H [A, B]	1	16-channel [B]	2				
	6ES7 421-1EL00-0AA0	7789278xxx	1			32-channel - R	1						
	6ES7 421-1FH00-0AA0	7789273xxx	1			16-channel - R [D]	1						
	6ES7 421-7DH00-0AB0	7789278xxx	1			32-channel - R	1						
	6ES7 421-7BH00-0AB0	7789290xxx	1			16-channel - H	1						
	6ES7 421-1FH20-0AA0	7789273xxx	1			16-channel - R	1						
Digital output	6ES7 422-1BH10-0AA0	7789291xxx	1							16-channel [Q]	1		
	6ES7 422-1BL00-0AA0	7789292xxx	1	7789293xxx	2					32-channel [Q]	1		
	6ES7 422-1FF00-0AA0	7789283xxx	1			8-channel - R	1						
	6ES7 422-1FH00-0AA0	7789273xxx	1			16-channel - R	1						
	6ES7 422-1HH00-0AA0	7789270xxx	1			32-channel - R	1						
	6ES7 422-5EH10-0AB0	7789291xxx	1							16-channel [C, F]	1		
	6ES7 422-7BL00-0AB0	7789292xxx	1							32-channel [A, Q]	1		
Anal. Input	6ES7 431-1KF00-0AB0	7789287xxx	1									8-channel	1
	6ES7 431-1KF00-0AB0	7789286xxx	1									8-channel	1
	6ES7 431-1KF10-0AB0	7789285xxx	1									8-channel	1
	6ES7 431-1KF20-0AB0	7789285xxx	1									8-channel	1
	6ES7 431-7QH00-0AB0	7789284xxx	1									16-channel	1
	6ES7 431-0HH00-0AB0	7789284xxx	1									16-channel	1
Anal. O	6ES7 432-1HF00-0AB0	7789288xxx	1									8-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789292**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Télémécanique - Micro

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**TSX DEZ 12D2**	7789312xxx	1	12-channel - H [B)]	1	16-channel [B, E)]	1				
	TSX DEZ 08A4	7789307xxx	1	8-channel - R	1						
	TSX DEZ 12D2K	7789301xxx	1	12-channel - H [B)]	1	16-channel [B, E)]	1				
	TSX DEZ 08A5	7789307xxx	1	8-channel - R	1						
	TSX DEZ 32D2	7789314xxx	1	32-channel - H [A, B)]	1	16-channel [B)]	2				
Digital output	**TSX DSZ 04T22**	7789312xxx	1					8-channel [C)]	1		
	TSX DSZ 08T2	7789312xxx	1					8-channel [C)]	1		
	TSX DSZ 08R5	7789308xxx	1	16-channel - R [D)]	1						
	TSX DSZ 08T2K	7789301xxx	1					8-channel [C)]	1		
	TSX DSZ 32T2	7789314xxx	1					32-channel [A, C)]	1		
	TSX DSZ 32R5	7789330xxx	1	32-channel - R [D)]	1						
Digital Input/Output	**TSX DMZ 28DT**	7789313xxx	1	16-channel - H [B)]	1	16-channel [B)]	1	12-channel [C)]	1		
	TSX DMZ 28DR	7789331xxx	1	16-channel - R [D)]	2						
	TSX DMZ 28AR	7789331xxx	1	16-channel - R [D)]	2						
	TSX DMZ 64DTK (*)	7789301xxx	4	32-channel - H [A, B)]	1	16-channel [B)]	2	32-channel [A, C)]	1		
	TSX DMZ 28DTK	7789301xxx	2	16-channel - H [B)]	1	16-channel [B)]	1	12-channel [C)]	1		
	TSX DMZ 16DTK	7789301xxx	1	16-channel - H	1						
Anal. Input	**TSX 37-22 (integrated)**	7789257xxx	1							9 channels M	1
	TSX AEZ 801	7789311xxx	1							8-channel	1
	TSX AEZ 802	7789311xxx	1							8-channel	1
	TSX AEZ 414	7789309xxx	1							4-channel	1
Anal. Output	**TSX 37-22 (integrated)**	7789257xxx	1							9 channels M	1
	TSX ASZ 401	7789310xxx	1							4-channel	1
	TSX ASZ 200	7789310xxx	1							4-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789301**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
E) Four channels unused
* All I/O signals with same common.
* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Télémécanique - Premium

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**TSX DEY 08D2**	7789322xxx	1	8-channel - H	1		1				
	TSX DEY 16D2	7789322xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TSX DEY 16D3	7789322xxx	1	16-channel - H [B, G)]	1	16-channel [B)]	1				
	TSX DEY 16A2 [1)]	7789315xxx	1	16-channel - R	1		1				
	TSX DEY 16A3	7789315xxx	1	16-channel - R	1		1				
	TSX DEY 16A4	7789315xxx	1	16-channel - R	1		1				
	TSX DEY 16A5	7789315xxx	1	16-channel - R [D)]	1		1				
	TSX DEY 16FK (*)	7789301xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TSX DEY 32D2K (*)	7789301xxx	2	32-channel - H [A, B)]	1	16-channel [B)]	2				
	TSX DEY 64D2K (*)	7789301xxx	4	32-channel - H [A, B)]	2	16-channel [B)]	4				
Digital output	**TSX DSY 08T2**	7789322xxx	1					8-channel [C)]	1		
	TSX DSY 08T22	7789317xxx	1	8-channel - R	1						
	TSX DSY 16T2	7789322xxx	1					16-channel [C)]	1		
	TSX DSY 08T31	7789317xxx	1	8-channel - R	1						
	TSX DSY 16T3	7789322xxx	1	16-channel - H [G)]	1						
	TSX DSY 08R5	7789316xxx	1	16-channel - R [D)]	1						
	TSX DSY 16R5	7789316xxx	1	16-channel - R [D)]	1						
	TSX DSY 08R5A	7789318xxx	1	16-channel - R [D)]	1						
	TSX DSY 08R4D	7789318xxx	1	16-channel - R	1						
	TSX DSY 08S5	7789316xxx	1	16-channel - R [D)]	1						
	TSX DSY 16S4	7789316xxx	1	16-channel - R	1						
	TSX DSY 32T2K (*)	7789301xxx	2					32-channel [A,C)]	1		
	TSX DSY 64T2K (*)	7789301xxx	4					32-channel [A,C)]	2		
Anal. Input	**TSX AEY 414**	7789320xxx	1							4-channel	1
	TSX AEY 414	7789319xxx	1							8-channel	1
	TSX AEY 420	7789259xxx	1							8-channel P	1
	TSX AEY 800	7789259xxx	1							8-channel P	1
	TSX AEY 810	7789261xxx	1							8-channel P	1
	TSX AEY 1600	7789259xxx	2							8-channel P	2
Anal. Output	**TSX ASY 410**	7789320xxx	1							4-channel	1
	TSX ASY 410	7789321xxx	1							4-channel	1
	TSX ASY 800	7789259xxx	1							8-channel P	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789301**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
G) Only use modules without LED
1) Use in ac mode
* All I/O signals with same common.
* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Télémécanique - Twido

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**TWD DDI 8DT**	7789100xxx	1	8-channel - H	1						
	TWD DDI 16DT	7789100xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TWD DDI 16DK [1)]	7789328xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TWD DDI 32DK [1)]	7789328xxx	2	32-channel - H [A, B)]	1	16-channel [B)]	2				
Digital output	**TWD DDO 8UT**	7789100xxx	1	8-channel - H	1						
	TWD DDO 8TT	7789100xxx	1					8-channel [C)]	1		
	TWD DDO 16UK	7789328xxx	1	16-channel - H	1						
	TWD DDO 16TK	7789329xxx	1					16-channel [C)]	1		
	TWD DDO 32UK	7789328xxx	2	32-channel - H [A)]	1						
	TWD DDO 32TK	7789329xxx	2					32-channel [A,C)]	1		
	TWD DRA 8RT	7789108xxx	1	8-channel - R	1						
	TWD DRA 16RT	7789104xxx	1	16-channel - R [D)]	1						
Digital I/O	**TWD LMDA 20DTK** [1)]	7789327xxx	1	12-channel - H [B)]	1	16-channel [B)]	1	8-channel [C)]	1		
	TWD LMDA 20DUK [1)]	7789326xxx	1	12-channel - H [B)]	1	16-channel [B)]	1				
				8-channel - H	1						
	TWD LMDA 20DTR	7789100xxx	1	12-channel - H [B)]	1	16-channel [B)]	1				
		7789104xxx	1	16-channel - R [D)]	1						
	TWD LMDA 40DTK [1)]	7789327xxx	2	12-channel - H [B)]	2	16-channel [B)]	2	8-channel [C)]	2		
	TWD LMDA 40DUK [1)]	7789326xxx	2	12-channel - H	2						
				8-channel - H	2						
Anal. I/O	**TWD AMI 2HT**	7789250xxx	1							4-channel	1
	TWD AMO 1HT	7789250xxx	1							4-channel	1
	TWD AMM 3HT	7789250xxx	1							4-channel	1
	TWD ALM 3LT	7789250xxx	1							4-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789100**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

1) Use in positive logic

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Télémécanique - Quantum

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	140 DAI 540 00	7789118xxx	1	32-channel - R	1						
	140 DAI 540 00	7789110xxx	1	16-channel - R	1						
	140 DAI 553 00	7789118xxx	1	32-channel - R	1						
	140 DAI 740 00	7789118xxx	1	32-channel - R [D]	1						
	140 DAI 740 00	7789110xxx	1	16-channel - R [D]	1						
	140 DAI 340 00	7789118xxx	1	32-channel - R	1						
	140 DAI 340 00	7789110xxx	1	16-channel - R	1						
	140 DAI 353 00	7789118xxx	1	32-channel - R	1						
	140 DAI 440 00	7789118xxx	1	32-channel - R	1						
	140 DAI 440 00	7789110xxx	1	16-channel - R	1						
	140 DAI 453 00	7789118xxx	1	32-channel - R	1						
	140 DDI 841 00	7789119xxx	1	16-channel - H [B]	1	16-channel [B]	1				
	140 DDI 853 00	7789121xxx	1	32-channel - H [A, B]	1	16-channel [B]	2				
	140 DDI 353 00	7789121xxx	1	32-channel - H [A, B]	1	16-channel [B]	2				
	140 DDI 364 00	7789301xxx	6	32-channel - H [A, B]	3	16-channel [B]	6				
Digital output	140 DAO 840 00	7789118xxx	1	32-channel - R [D]	1						
	140 DAO 840 00	7789112xxx	1	16-channel - R [D]	1						
	140 DAO 842 10	7789113xxx	1	16-channel - R [D]	1						
	140 DDO 353 00	7789121xxx	1					32-channel [A, C]	1		
	140 DDO 843 00	7789120xxx	1					16-channel [C, F]	1		
	140 DDO 364 00	7789301xxx	6					32-channel [A, C]	3		
	140 DRA 840 00	7789118xxx	1	32-channel - R [D]	1						
Dig. I/O	140 DDM 390 00	7789133xxx	1	16-channel - H [B]	1	16-channel [B]	1	8-channel [C]	1		
Anal. Input	140 ACI 030 00	7789125xxx								8-channel	1
	140 ACI 030 00	7789134xxx								8-channel	1
	140 AVI 030 00	7789125xxx								8-channel	1
	140 AVI 030 00	7789134xxx								8-channel	1
	140 ARI 030 10	7789135xxx								8-channel	1
	140 ACI 040 00	7789123xxx								16-channel	1
	140 AII 330 00	7789136xxx								8-channel	1
Anal. Output	140 ACO 020 00	7789124xxx								4-channel	1
	140 ACO 130 00	7789126xxx								8-channel	1
	140 AIO 330 00	7789137xxx								8-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789301**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Télémécanique - M340

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**BMX DDI 1602**	7789380xxx	1	16 channels-H (B)	1	16 channels-H (B)	1				
	BMX DDI 1603	7789382xxx	1	16 channels-R	1						
	BMX DDI 3202K	7789387xxx	1	32 channels-H (A) (B)	1	16 channels-H (B)	2				
	BMX DDI 6402K	7789387xxx	2	32 channels-H (A) (B)	2	16 channels-H (B)	4				
	BMX DAI 1602 (1)	7789630xxx	1	16 channels-H (B)	1	16 channels-H (B)	1				
	BMX DAI 1602 (2)	7789382xxx	1	16 channels-R	1						
	BMX DAI 1603	7789382xxx	1	16 channels-R	1						
	BMX DAI 1604	7789382xxx	1	16 channels-R	1						
Digital output	**BMX DAO 1605**	7789383xxx	1	16 channels-R (D) (K)	1						
	BMX DDO 1602	7789380xxx	1					16 channels (C)	1		
	BMX DDO 1612	7789380xxx	1					16 channels (C)	1		
	BMX DDO 3202K	7789387xxx	1					16 channels (C)	2		
	BMX DDO 6402K	7789387xxx	2					16 channels (C)	4		
	BMX DRA 0805	7789633xxx	1	16 channels-R (D)	1						
	BMX DRA 1605	7789384xxx	1	16 channels-R (D)	1						
Digital I/O	**BMX DDM 16025**	7789635xxx	1	8 channels-H 8 channels-R (D)	1 1						
	BMX DDM 16022	7789386xxx	1	8 channels-H	2						
	BMX DDM 3202K	7789387xxx	1	16 channels-H	2						
Anal. Input	**BMX AMI 0410** (3)	7789637xxx	1							4 channels	1
	BMX AMI 0410 (4)	7789638xxx	1							4 channels	1
	BMX ART 0414	7789639xxx	1							16 channels	1
	BMX ART 0814	7789639xxx	2							16 channels	2
Anal. O	**BMX AMO 0210**	7789640xxx	1							4 channels	1
											1
Anal. I/O	**BMX AMM 0600** (3)	7789628xxx	1							4 channels	1
	BMX AMM 0600 (4)	7789629xxx	1							4 channels	

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789236**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

K) Each interface have one common

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

(1) use in 24 VDC, negative logic

(2) use in 24 VAC

(3) Use this cable for voltage signals.

(4) Use this cable for current signals.

PLC Rockwell - SLC 500

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**1746 - IB32**	7789005xxx	1	32-channel - H [A, B]	1	16-channel [B]	2				
	1746 - IV32	7789670xxx	1	32-channel - H [A]	1						
	1746 - IB16	7789001xxx	1	16-channel - H	1						
	1746 - IC16	7789001xxx	1	16-channel - H	1						
	1746 - IN16	7789001xxx	1	16-channel - H	1						
	1746 - ITB16	7789001xxx	1	16-channel - H	1						
	1746 - ITV16	7789000xxx	1	16-channel - H	1						
	1746 - IV16	7789000xxx	1	16-channel - H	1						
	1746 - IB8	7789100xxx	1	8-channel - H	1						
	1746 - IV8	7789100xxx	1	8-channel - H	1						
Digital output	**1746 - OB32**	7789006xxx	1					32-channel [A, C]	1		
	1746 - OV32	7789006xxx	1	32-channel - H [A]	1						
	1746 - OB16	7789003xxx	1					16-channel [C]	1		
	1746 - OB16E	7789003xxx	1					16-channel [C]	1		
	1746 - OBP16	7789003xxx	1					16-channel [C]	1		
	1746 - OG16	7789003xxx	1	16-channel - H	1						
	1746 - OV16	7789003xxx	1	16-channel - H	1						
	1746 - OVP16	7789003xxx	1	16-channel - H	1						
	1746 - OW16	7789002xxx	1					16-channel [C, F]	1		
	1746 - OB8	7789100xxx	1					8-channel [C]	1		
	1746 - OBP8	7789100xxx	1					8-channel [C]	1		
	1746 - OV8	7789100xxx	1	8-channel - H	1						
	1746 - OW8	7789100xxx	1					8-channel [C, F]	1		
	1746 - OX8	7789100xxx	1	16-channel - H [F]	1						
	1746 - OW4	7789100xxx	1					8-channel [C, F]	1		
Anal. I	**1746 - NI8**	7789011xxx	1							8-channel	1
	1746 - NI4	7789008xxx	1							4-channel	1
Anal. O	**1746 - NO4V**	7789010xxx	1							4-channel	1
	1746 - NO4I	7789010xxx	1							4-channel	1
Anal. I/O	**1746 - NIO4V**	7789009xxx	1							4-channel	1
	1746 - NIO4I	7789009xxx	1							4-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789005**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)
* All I/O signals with same common.
* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Rockwell - Compact Logix

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**1769 - IA8I**	7789016xxx	1	16-channel - R	1						
	1769 - IM12	7789025xxx	1	16-channel - R	1						
	1769 - IA16	7789025xxx	1	16-channel - R	1						
	1769 - IQ16	7789019xxx	1	16-channel - H	1						
	1769 - IQ16F	7789019xxx	1	16-channel - H	1						
	1769 - IQ32	7789019xxx	2	16-channel - H	2						
Digital output	**1769 - OA8**	7789017xxx	1	8-channel - R	1						
	1769 - OB8	7789015xxx	1					8-channel C)	1		
	1769 - OW8	7789017xxx	1	8-channel - R	1						
	1769 - OW8I	7789016xxx	1	16-channel - R	1						
	1769 - OA16	7789024xxx	1	16-channel - R	1						
	1769 - OB16	7789018xxx	1					16-channel C)	1		
	1769 - OB16P	7789018xxx	1					16-channel C)	1		
	1769 - OV16	7789018xxx	1	16-channel - H	1						
	1769 - OW16	7789024xxx	1	16-channel - R	1						
	1769 - OB32	7789018xxx	2					16-channel C)	2		
Dig. I/O	**1769 - IQ6XOW4**	7789014xxx	1	16-channel - R	1						
Anal. Input	**1769 - IF4**	7789026xxx	1							4-channel	1
		7789046xxx	1							4-channel	1
	1769 - IF4I	7789027xxx	1							4-channel	1
		7789047xxx	1							4-channel	1
	1769 - IF8	7789028xxx	1							8-channel	1
		7789045xxx	1							8-channel	1
Anal. Output	**1769 - OF2**	7789029xxx	1							4-channel	1
	1769 - OF4CI	7789043xxx	1							4-channel	1
	1769 - OF8V	7789044xxx	1							8-channel	1
	1769 - OF8C	7789044xxx	1							8-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789019**020**

Notes concerning the use of interface modules:

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Rockwell - Control Logix

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**1756-IA16**	7789031xxx	1	16-channel - R	1						
	1756-IA16I	7789030xxx	1	32-channel - R	1						
	1756-IA8D	7789048xxx	1	8-channel - R	1						
	1756 - IB16	7789039xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	1756-IB16D	7789049xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	1756-IB16I	7789049xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	1756-IB32	7789041xxx	1	32-channel - H [A, B)]	1	16-channel [B)]	2				
	1756 - IC16	7789031xxx	1	16-channel - R	1						
	1756-IH16I	7789030xxx	1	32-channel - R	1						
	1756-IM16I	7789030xxx	1	32-channel - R [D)]	1						
	1756 - IN16	7789031xxx	1	16-channel - R	1						
Digital output	**1756 - OA16**	7789056xxx	1	16-channel - R [D)]	1						
	1756-OA16I	7789030xxx	1	32-channel - R [D)]	1						
	1756 - OA8	7789057xxx	1	8-channel - R	1						
	1756-OA8D	7789048xxx	1	8-channel - R	1						
	1756-OA8E	7789048xxx	1	8-channel - R	1						
	1756-OB16D	7789040xxx	1					16-channel [C)]	1		
	1756 - OB16E	7789058xxx	1					16-channel [C)]	1		
	1756-OB16I	7789059xxx	1					16-channel [C)]	1		
	1756 - OB32	7789042xxx	1					32-channel [A, C)]	1		
	1756 - OB8	7789151xxx	1					8-channel [C)]	1		
	1756-OB8EI	7789152xxx	1					8-channel [C)]	1		
	1756-OC8	7789153xxx	1	16-channel - R	1						
	1756-OH8I	7789154xxx	1	16-channel - R	1						
	1756-ON8	7789057xxx	1	8-channel - R	1						
	1756-OW16I	7789030xxx	1	32-channel - R [D)]	1						
	1756-OX8I	7789155xxx	1	16-channel - R [D)]	1						
Anal. I	**1756-IF6I**	7789156xxx	1							8-channel	1
	1756-IF6I	7789157xxx	1							8-channel	1
	1756-IF16	7789032xxx	1							16-channel	1
	1756 - IF8	7789035xxx	1							8-channel	1
	1756 - IF8	7789036xxx	1							8-channel	1
	1756-IR6I	7789158xxx	1							8-channel	1
Anal. O	**1756-OF4**	7789033xxx	1							4-channel	1
	1756-OF4	7789034xxx	1							4-channel	1
	1756-OF6VI	7789157xxx	1							8-channel	1
	1756-OF6CI	7789159xxx	1							8-channel	1
	1756-OF8	7789037xxx	1							8-channel	1
	1756-OF8	7789038xxx	1							8-channel	1
	1756-OV16E	7789165xxx	1							16-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789031**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Fanuc 90-30 and Alspa 8035

	PLC	Cables		Interfaces									
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output			
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -			
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty		
Digital input	**IC693MDL230**	7789064xxx	1	16-channel - R	1								
	IC693MDL231	7789064xxx	1	16-channel - R [D]	1								
	IC693MDL240	7789061xxx	1	16-channel - R	1								
	IC693MDL241	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1						
	IC693MDL630	7789067xxx	1	8-channel - H	1								
	IC693MDL632	7789634xxx	1	8-channel - R	1								
	IC693MDL634	7789067xxx	1	8-channel - H [H]	1								
	IC693MDL640	7789067xxx	1	16-channel - H [B]	1	16-channel [B]	1						
	IC693MDL643	7789067xxx	1	16-channel - H [B]	1	16-channel [B]	1						
	IC693MDL645	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1						
	IC693MDL646	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1						
	IC693MDL654	7789066xxx	2	32-channel - H [A, B, H]	1	16-channel [B, H]	2						
	IC693MDL655	7789066xxx	2	32-channel - H [A, B, H]	1	16-channel [B, H]	2						
Digital output	**IC693MDL310**	7789063xxx	1	16-channel - R	1								
	IC693MDL340	7789063xxx	1	16-channel - R	1								
	IC693MDL730	7789069xxx	1					8-channel [C, F]	1				
	IC693MDL731	7789069xxx	1	8-channel - H	1								
	IC693MDL732	7789068xxx	1					8-channel [C, F]	1				
	IC693MDL733	7789068xxx	1	8-channel - H	1								
	IC693MDL740	7789068xxx	1					16-channel [C, F]	1				
	IC693MDL741	7789068xxx	1	16-channel - H	1								
	IC693MDL742	7789068xxx	1					16-channel [C, F]	1				
	IC693MDL752	7789066xxx	2	32-channel - H [A]	1								
	IC693MDL753	7789066xxx	2					32-channel [A, C]	1				
Anal. Input	**IC693ALG220**	7789076xxx	1							4-channel	1		
	IC693ALG221	7789075xxx	1							4-channel	1		
	IC693ALG222	7789072xxx	1							8-channel	1		
	IC693ALG223	7789072xxx	1							8-channel	1		
Anal. O	**IC693ALG390**	7789073xxx	1							8-channel	1		
	IC693ALG391	7789073xxx	1							8-channel	1		
Anal. I/O	**IC693ALG442**	7789074xxx	1							16-channel	1		

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789067**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)
H) Use the PLC I/O card in positive logic only
* All I/O signals with same common.
* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC Fanuc RX3i

	PLC	Cables		Interfaces									
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output			
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -			
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty		
Digital input	**IC694MDL230**	7789064xxx	1	16-channel - R [D]	1								
	IC694MDL231	7789064xxx	1	16-channel - R [D]	1								
	IC694MDL240	7789061xxx	1	16-channel - R [D]	1								
	IC694MDL241	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1						
	IC694MDL250	7789631xxx	1	32-channel - R [D]	1								
	IC694MDL260 [1]	7789632xxx	1	32-channel - R [D]	1								
	IC694MDL632 [1]	7789634xxx	1	8-channel - R [D]	1								
	IC694MDL634	7789067xxx	1	8-channel - H [H]	1								
	IC694MDL645	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1						
	IC694MDL646	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1						
	IC694MDL654 [1]	7789066xxx	2	32-channel - H [B, H]	1	16-channel [B, H]	2						
	IC694MDL655 [1]	7789066xxx	2	32-channel - H [B, H]	1	16-channel [B, H]	2						
	IC694MDL660	7789619xxx	1	32-channel - H [B, H]	1	16-channel [B, H]	2						
Digital output	**IC694MDL310**	7789063xxx	1	16-channel - R [D]	1								
	IC694MDL330 [1]	7789634xxx	1	8-channel - R [D]	1								
	IC694MDL340	7789063xxx	1	16-channel - R [D]	1								
	IC694MDL350	7789631xxx	1	32-channel - R [D]	1								
	IC694MDL390	7789636xxx	1	16-channel - R [D]	1								
	IC694MDL732	7789068xxx	1					8-channel [C, F]	1				
	IC694MDL734	7789669xxx	1	16-channel - R [D]	1								
	IC694MDL740 [1]	7789068xxx	1					16-channel [C, F]	1				
	IC694MDL741 [1]	7789068xxx	1	16-channel - H	1								
	IC694MDL742 [1]	7789068xxx	1					16-channel [C, F]	1				
	IC694MDL752 [1]	7789066xxx	2	32-channel - H [A]	1								
	IC694MDL753 [1]	7789066xxx	2					32-channel - H [A, C]	1				
	IC694MDL754 [1]	7789618xxx	1					32-channel - H [A, C]	1				
	IC694MDL930	7789064xxx	1	16-channel - R [D]	1								
	IC694MDL931	7789665xxx	1	32-channel - R [D]	1								
	IC694MDL940 [1]	7789666xxx	1	16-channel - R [D]	1								
Anal. Input	**IC694ALG220**	7789076xxx	1							4-channel	1		
	IC694ALG221	7789075xxx	1							4-channel	1		
	IC694ALG222 [2]	7789072xxx	1							8-channel	1		
	IC694ALG223	7789072xxx	1							8-channel	1		
	IC695ALG600 [4]	7789622xxx	1							16-channel	1		
	IC695ALG600 [5] [6]	7789623xxx	1							16-channel	1		
	IC695ALG608	7789667xxx	1							8-channel	1		
	IC695ALG616	7789626xxx	1							16-channel	1		
Anal. Output	**IC694ALG390**	7789073xxx	1							8-channel	1		
	IC694ALG391	7789073xxx	1							8-channel	1		
	IC694ALG392 [6]	7789620xxx	1							4-channel	1		
	IC694ALG392 [5]	7789624xxx	1							4-channel	1		
	IC695ALG704	7789668xxx	1							4-channel	1		
	IC695ALG708	7789625xxx	1							8-channel	1		
	IC695ALG808	7789621xxx	1							8-channel	1		

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789067**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)
H) Use the PLC I/O card in positive logic only
K) Each interface have one common

(1) All the groups with same common
(2) Single Ended mode applications
(3) Differential Ended applications
(4) RTD or resistance applications
(5) Voltage applications
(6) Current applications

PLC OMRON CQM1

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**ID211**	7789646xxx	1	16-channel - H	1						
	ID212	7789647xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1				
	ID213	7789370xxx	1	32-channel - H [B, H]	1	16-channel [B, H]	2				
	IA121	7789652xxx	1	8-channel - R	1						
	IA221	7789652xxx	1	8-channel - R	1						
Digital output	**OC221**	7789653xxx	1	8-channel - R	1						
	OC222	7789654xxx	1	16-channel - R	1						
	OD211	7789653xxx	1	8-channel - H	1						
	OD212	7789655xxx	1	16-channel - H	1						
	OD213	7789372xxx	1					32-channel [A, C]	1		
	OD214	7789655xxx	1					16-channel [C]	1		
	OA221	7789656xxx	1	8-channel - R	1						
Anal. I	**AD041**	7789252xxx	1		1					8-channel [J]	1
					1						
Anal. O	**DA021**	7789251xxx	1		1					4-channel [J]	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789143**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
H) Only for positive logic, for negative logic invert the polarity of the source on the interface.
J) The PLC connector is not included. The wires of the cable are free and equipped with ferrules.
* All I/O signals with same common.
* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC OMRON C200H

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**ID211**	7789100xxx	1	8-channel - H [J]	1						
	ID001	7789100xxx	1	8-channel - H [J]	1						
	ID002	7789100xxx	1	8-channel - H [J]	1						
	IA121	7789108xxx	1	8-channel - R [J]	1						
	IA122	7789104xxx	1	16-channel - R [J]	1						
	IM211	7789108xxx	1	8-channel - H [J]	1						
	ID212	7789100xxx	1	16-channel - H [B, J]	1	16-channel [B, J]	1				
	IA122-V	7789104xxx	1	16-channel - R [J]	1						
	IA222-V	7789104xxx	1	16-channel - R [J]	1						
	IM212	7789100xxx	1	16-channel - H [B, J]	1	16-channel [B, J]	1				
	ID216	7789370xxx	1	32-channel - H [A, B, H]	1	16-channel [B]	2				
	ID217	7789370xxx	2	32-channel - H [A, B, H]	2	16-channel [B]	4				
Digital output	**OC221**	7789108xxx	1	8-channel - R [J]	1						
	OC224-V	7789104xxx	1	16-channel - R [J]	1						
	OC223	7789108xxx	1	8-channel - R [J]	1						
	OD214	7789100xxx	1		1			8-channel [C, J]	1		
	OD411	7789100xxx	1	8-channel - H [J]	1						
	OD213	7789100xxx	1	8-channel - H [J]	1						
	OA221	7789108xxx	1	8-channel - R [J]	1						
	OC222-V	7789104xxx	1	16-channel - R [J]	1						
	OD217	7789100xxx	1		1			12-channel [C, J]	1		
	OD211	7789100xxx	1	12-channel - H [J]	1						
	OA222-V	7789104xxx	1	16-channel - R [J]	1						
	OC225	7789104xxx	1	16-channel - R [J]	1						
	OD212	7789100xxx	1	16-channel - H [J]	1						

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789142**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
H) Only for positive logic, for negative logic invert the polarity of the source on the interface.
J) The PLC connector is not included. The wires of the cable are free and equipped with forks.
* All I/O signals with same common.
* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

PLC OMRON CJ1W

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Analog input/output	
				- see page B.21 -		- see page B.39 -		- see page B.42 -		- see page B.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**ID211**	7789645xxx	1	16-channel - H [B, H]	1	16-channel [B]	1				
	ID231	7789370xxx	1	32-channel - H [A, B, H]	1	16-channel [B]	2				
	ID232	7789371xxx	1	32-channel - H [A, B, H]	1	16-channel [B]	2				
	ID261	7789370xxx	2	32-channel - H [A, B, H]	2	16-channel [B]	4				
	ID262	7789371xxx	2	32-channel - H [A, B, H]	2	16-channel [B]	4				
	IA111	7789664xxx	1	16-channel - R	1						
	IA201	7789648xxx	1	8-channel - R	1						
Digital output	**OC201**	7789649xxx	1	16-channel - R	1						
	OC211	7789664xxx	1	16-channel - R	1						
	OD201	7789650xxx	1	8-channel - H	1						
	OD202	7789650xxx	1					8-channel [C]	1		
	OD211	7789651xxx	1					16-channel [C]	1		
	OD212	7789651xxx	1					16-channel [C]	1		
	OD231	7789372xxx	1					32-channel [A, C]	1		
	OD232	7789373xxx	1					32-channel [A, C]	1		
	OD233	7789373xxx	1	32-channel - H [A]	1						
	OD261	7789372xxx	2	32-channel - H [A]	2						
	OD263	7789373xxx	2	32-channel - H [A]	2						
	OA201	7789648xxx	1	8-channel - R	1						

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 meters in length: *Order number*: 7789100**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

H) Only for positive logic, for negative logic invert the polarity of the source on the interface.

* All I/O signals with same common.

* Additional technical information about pre-assembled cable available in ON-line catalog http://www.weidmuller.com

Type			Functionalities						Modules		
No. of channels	H or R System	Type of wiring	Compact version	Connection: Screw	Connection: Tension c.	1 LED per chan.	Disconnectable	Fuse	Order No.	Type	Page
8 channels	H System	2-wire		●		●			**9445530000**	RS 8ES-D-L H/V	**B.22**
	R System	2-wire		●					9441540000 (*)	RS8ES-DP RSV1,6/V	**B.22**
12 chan.	H System	2-wire		●		●			9445630000	RS 12ES-D-L H/V	**B.23**
16 channels	H System	1-wire	●	●					**9445700000**	RS 16ES H/V	**B.24**
			●	●		●			**9445710000**	RS 16ES-L H/V	**B.24**
					●				9447700000 (*)	RS 16ES H/Z	**B.24**
					●	●			9447710000	RS 16ES-L H/Z	**B.24**
				●		●	●		9445810000	RS 16ES-S-I-L H/V	**B.24**
		2-wire	●	●					**9445720000**	RS 16ES-D H/V	**B.25**
			●	●		●			**9445730000**	RS 16ES-D-L H/V	**B.25**
					●	●			9447730000	RS 16ES-D-L H/Z	**B.25**
			●	●		●	●		9445750000	RS 16ES-D-I-L H/V	**B.25**
					●	●	●		9447750000 (*)	RS 16ES-D-I-L H/Z	**B.25**
				●				●	9445820000	RS 16ES-D-F H/V	**B.26**
		3-wire	●	●					**9445760000**	RS 16ES-T H/V	**B.26**
			●	●		●			**9445770000**	RS 16ES-T-L H/V	**B.26**
					●	●			9447770000	RS 16ES-T-L H/Z	**B.26**
	R System	1-wire		●					9441500000	RS16ES RSV1,6/V	**B.27**
				●			●		9441860000	RS16ES-I RSV1,6/V	**B.27**
		2-wire		●					9441700000	RS16ES-DP RSV1,6/V	**B.28**
				●				●	9441560000	RS16ES-DP/F RSV1,6/V	**B.28**
		3-wire		●			●		9441600000 (*)	RS16E-3E/I RSV1,6/V	**B.29**
32 channels	H System	1-wire	●	●					**9445900000**	RS 32ES H/V	**B.30**
			●	●		●			**9445910000**	RS 32ES-L H/V	**B.30**
					●				9447900000 (*)	RS 32ES H/Z	**B.30**
					●	●			9447910000	RS 32ES-L H/Z	**B.30**
				●		●	●		9445870000	RS 32ES-S-I-L H/V	**B.31**
		2-wire	●	●					**9445930000**	RS 32ES-D-L H/V	**B.32**
					●	●			9447930000	RS 32ES-D-L H/Z	**B.32**
			●	●		●	●		9445950000	RS 32ES-D-I-L H/V	**B.33**
					●	●	●		9447950000 (*)	RS 32ES-D-I-L H/Z	**B.33**
				●				●	9445980000	RS 32ES-D-F H/V	**B.34**
		3-wire	●	●					**9445960000**	RS 32ES-T H/V	**B.35**
			●	●		●			**9445970000**	RS 32ES-T-L H/V	**B.35**
					●	●			9447970000	RS 32ES-T-L H/Z	**B.35**
	R System	1-wire		●					**9441510000**	RS32ES RSV1,6/V	**B.36**
				●			●		9441870000	RS32ES-I RSV1,6/V	**B.36**
		2-wire		●					**9441710000**	RS32ES-DP RSV1,6/V	**B.37**
				●				●	9441570000 (*)	RS32ES-DP/F RSV1,6/V	**B.37**
		3-wire		●			●		**9441610000**	RS32E-3E/I RSV1,6/V	**B.38**

Note: Preferred articles in bold

(*) Available upon customer request

For 8-channel digital I/O cards
H System and R System

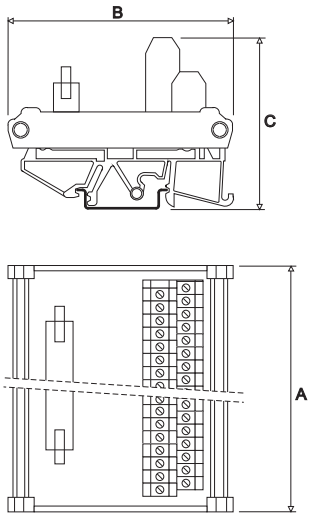
RS ES-D - 8-channel

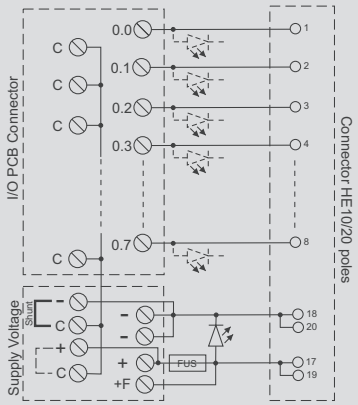
H-System – 2-wire (common + or –)
Version: screw connection

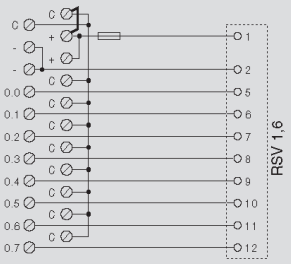
RS ES-DP - 8-channel

R-System – 2-wire (common + or –)
Version: screw connection

Dimensions







Technical data

Connection			
Connection to PLC		HE 10 connector - 20 pole	RSV 1.6 connector – 12 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		24 V DC ± 10%	250 V max
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green	–
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	max 250 V
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	250 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	1.7 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	74 x 87.5 x 72	68 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

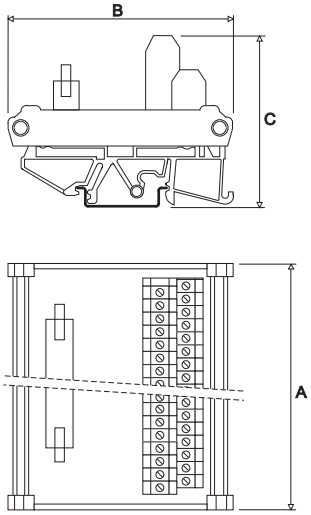
	Type	Order No.	Type	Order No.
Screw connection without LED			RS8ES-DP RSV1,6/V	**9441540000** (1)
Screw connection with LED	RS 8ES-D-L H/V	**9445530000**		
Tension clamp connection without LED				
Tension clamp connection with LED				
Note			(1) Available upon customer request	

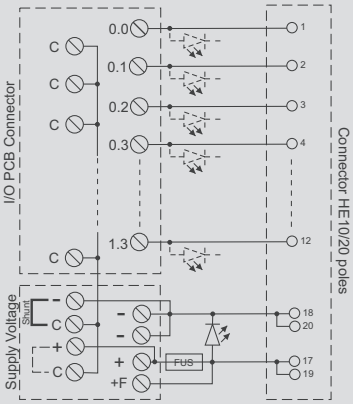
For 12-channel digital I/O cards System H

RS ES-D - 12-channel

H-System – 2-wire (common + or –)
Version: screw connection

Dimensions





Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		24 V DC ± 10%
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		–
LED status indication per channel		Green
Polarity distribution		+ or – selectable with a jumper
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 50 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		0.5 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	95 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires

Ordering data

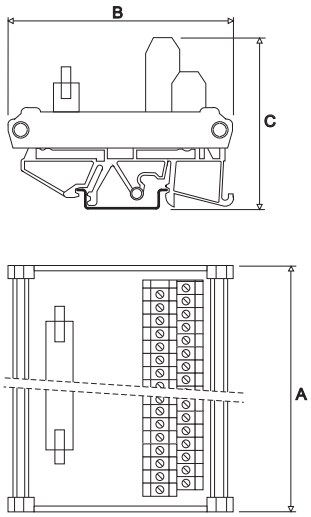
	Type	Order No.
Screw connection without LED		
Screw connection with LED	RS 12ES-D-L H/V	**9445630000**
Tension clamp connection without LED		
Tension clamp connection with LED		
Note		

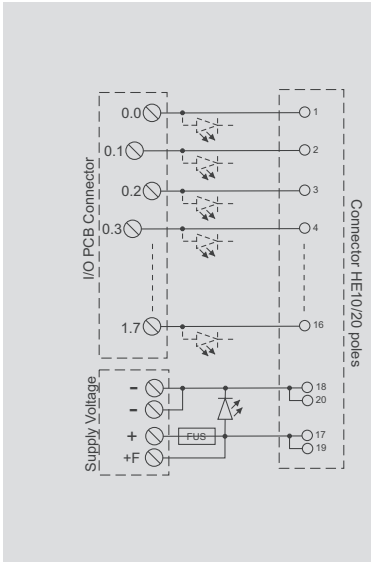
For 16-channel digital I/O cards System H

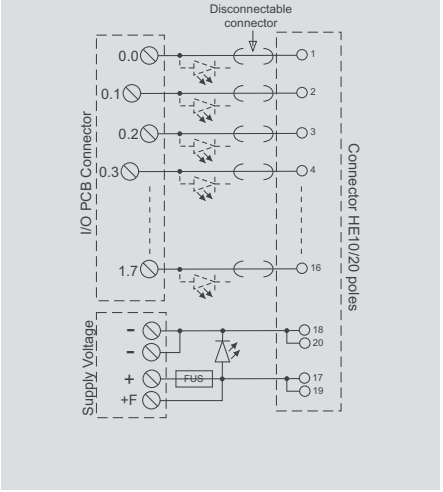
RS ES-S - 16-channel

RS ES-S-I - 16 disconnectable channels

Dimensions







Technical data

Connection			
Connection to PLC		HE 10 connector - 20 pole	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)	
Input-Output Data			
Operating voltage		≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		Green (versions with LED)	Green
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	81 x 87.5 x 72	110 x 87.5 x72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type		Order No.	Type	Order No.
Screw connection without LED	RS 16ES H/V C	>C<	9445700000	RS 16ES-S-I-L H/V	9445810000
Screw connection with LED	RS 16ES-L H/V C	>C<	9445710000		
Tension clamp connection without LED	RS 16ES H/Z		9447700000 (1)		
Tension clamp connection with LED	RS 16ES-L H/Z		9447710000		
Note	>C< : compact version (1) Available upon customer request				

For 16-channel digital I/O cards System H

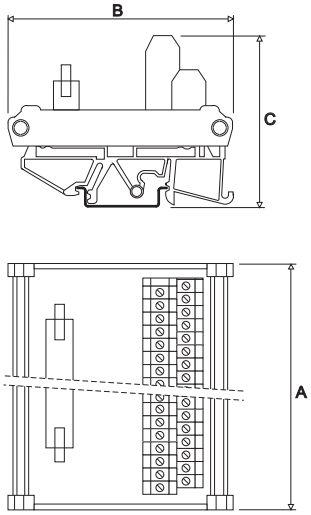
RS ES-D - 16-channel

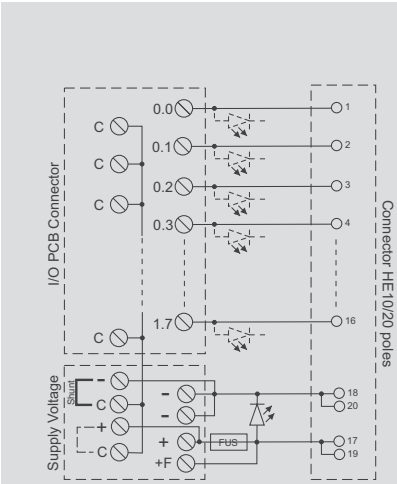
H-System – 2-wire (common + or –)
Versions: screw / tension clamp connection - compact

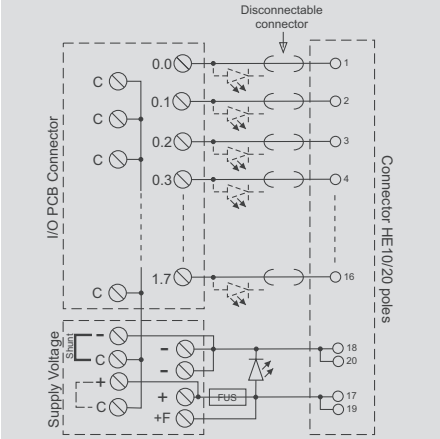
RS ES-D-I - 16 disconnectable channels

H-System – 2-wire (common + or –)
Versions: screw / tension clamp connection - compact

Dimensions







Technical data

Connection			
Connection to PLC		HE 10 connector - 20 pole	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input-Output Data			
Operating voltage		≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		Green (versions with LED)	Green
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	117 x 87.5 x 72	119 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type		Order No.
Screw connection without LED	RS 16ES-D H/V C	>|<	9445720000
Screw connection with LED	RS 16ES-D-L H/V C	>|<	9445730000
Tension clamp connection without LED			
Tension clamp connection with LED	RS 16ES-D-L H/Z		9447730000
Note	>|< : compact version		

Type		Order No.
RS 16ES-D-I-L H/V C	>|<	9445750000
RS 16ES-D-I-L H/Z		9447750000 (1)

>|< : compact version
(1) Available upon customer request

For 16-channel digital I/O cards System H

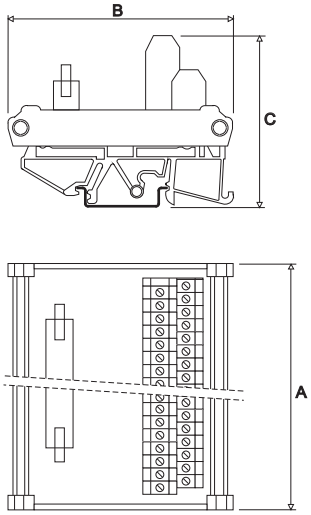
RS ES-D-F - 16-channel with fuse

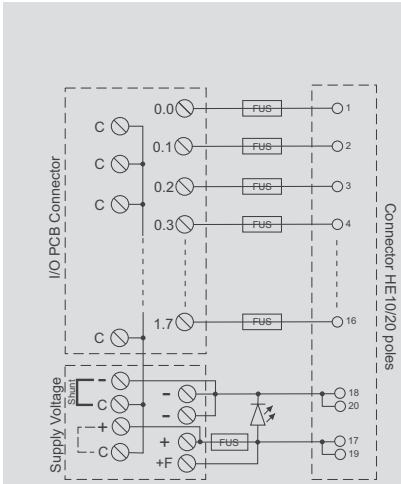
H-System – 2-wire (common + or –)
Version: screw connection

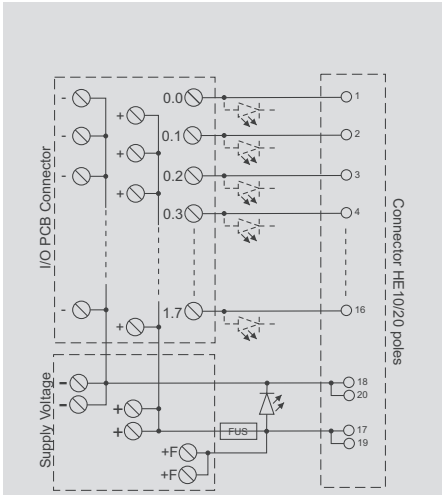
RS ES-T - 16-channel

H System – 3-wire (common + and –)
Versions: screw / tension clamp connection - compact

Dimensions







Technical data

Connection			
Connection to PLC		HE 10 connector - 20 pole	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		≤ 25V AC 50 V DC	≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		0.5 A fuse on each channel	–
Disconnection per channel		–	–
LED status indication per channel		–	Green (versions with LED)
Polarity distribution		+ or – selectable with a jumper	+ and –
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	122 x 87.5 x 72	110 x 87.5 x72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS 16ES-D-F H/V	**9445820000**	RS 16ES-T H/V	**9445760000**
Screw connection with LED			RS 16ES-T-L H/V	**9445770000**
Tension clamp connection without LED				
Tension clamp connection with LED			RS 16ES-T-L H/Z	**9447770000**
Note			**: compact version**	

For 16-channel digital I/O cards System R

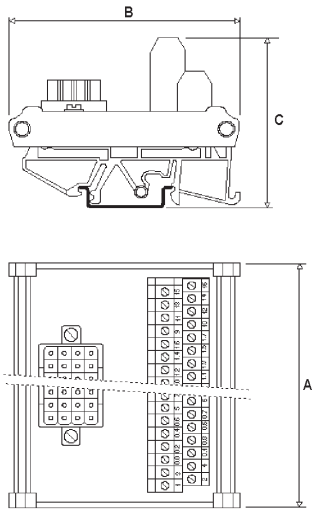
RS ES - 16-channel

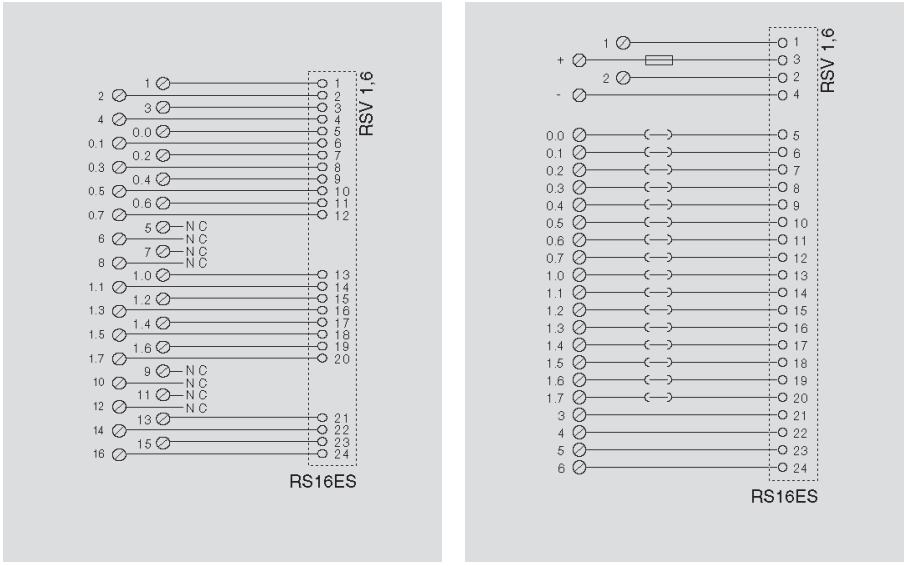
System R – 1-wire cabling
Version: screw connection

RS ES-I – 16 disconnectable channels

System R – 1-wire cabling
Version: screw connection

Dimensions





Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 24 pole	RSV 1.6 connector - 24 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	250 V max
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		–	–
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		max 150 V	max 250 V
PLC card supply current		2 A	2 A
PLC card supply current fuse		–	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	250 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.7 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	97 x 87.5 x 68	127 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

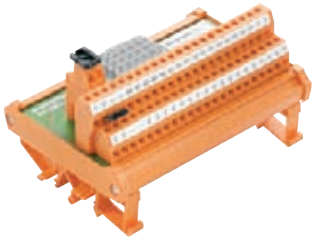
Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS16ES RSV1,6/V	**9441500000**	RS16ES-I RSV1,6/V	**9441860000**
Screw connection with LED				
Note				

For 16-channel digital I/O cards System R

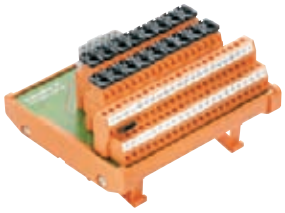
RS ES-DP - 16-channel

R-System – 2-wire (common + or –)
Version: screw connection

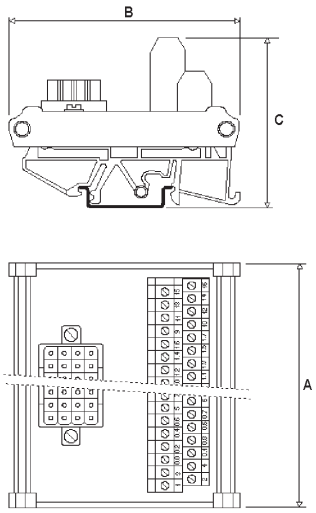


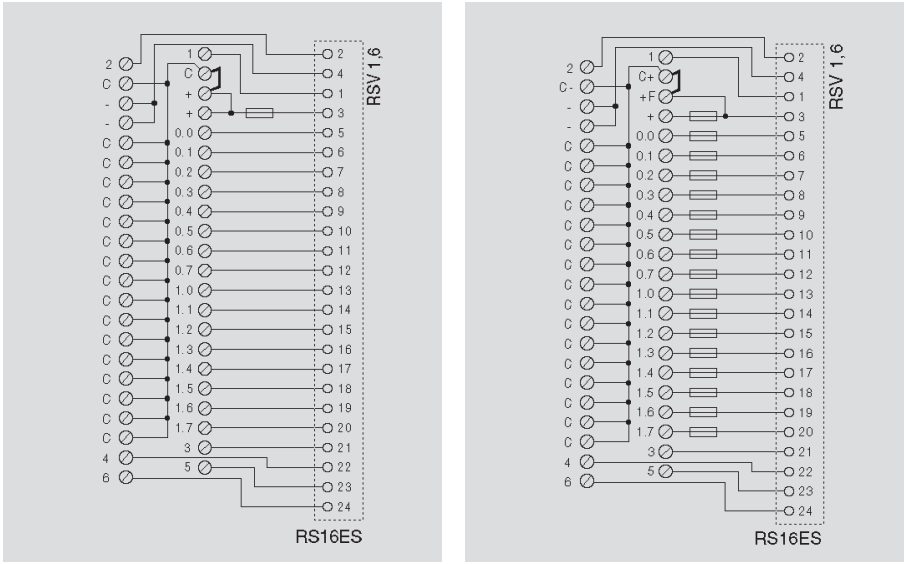
RS ES-DP/F - 16-channel with fuse

R-System – 2-wire (common + or –)
Version: screw connection



Dimensions





Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 24 pole	RSV 1.6 connector - 24 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	max 150 V UC
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	1 A fuse on each channel
Disconnection per channel		–	–
LED status indication per channel		–	–
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		max 150 V UC	max 150 V UC
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	< 150 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.1 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	123 x 87.5 x 72	123 x 109 x 72
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

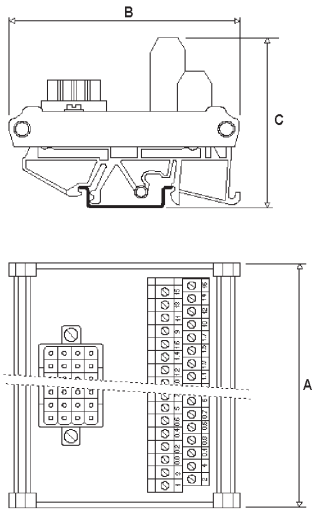
	Type	Order No.	Type	Order No.
Screw connection without LED	RS16ES-DP RSV1,6/V	**9441700000**	RS16ES-DP/F RSV1,6/V	**9441560000**
Screw connection with LED				
Note				

For 16-channel digital I/O cards System R

RS ES-3 E/I - 16 disconnectable channels

R System – 3-wire (common + and –)
Version: screw connection

Dimensions



Technical data

Connection		
Connection to PLC		RSV 1.6 connector - 24 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		max 150 V UC
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		Yes - each channel
LED status indication per channel		–
Polarity distribution		+ and –
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		max 150 V UC
PLC card supply current		
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 150 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.1 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	116 x 109 x 84
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.
Screw connection without LED	RS16E-3E/I RSV1,6/V	**9441600000** (1)
Screw connection with LED		
Note	(1) Available upon customer request	

For 32-channel digital I/O cards System H

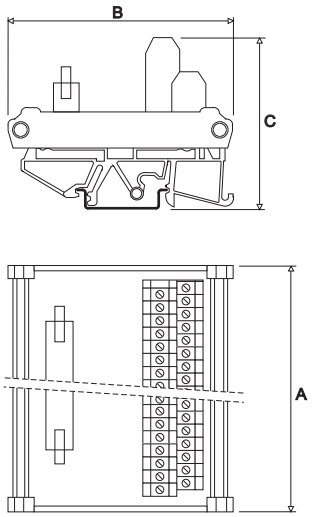
RS ES-S - 32-channel

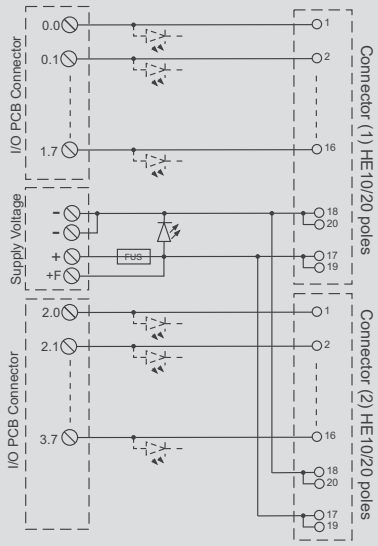
H System – 1-wire
Version: screw connection - compact

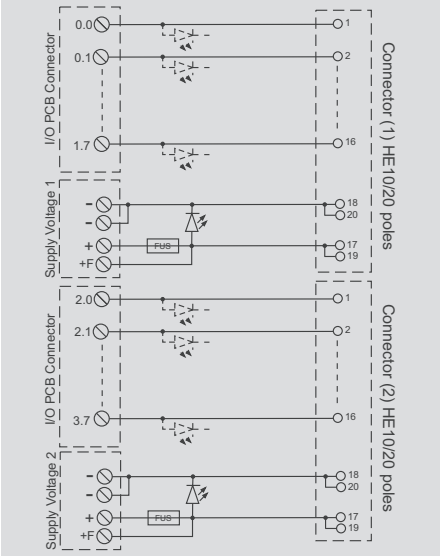
RS ES-S - 32-channel

H System – 1-wire
Version: tension clamp

Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		≤ 25V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	≤ 25V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green (version with LED)	Green (version with LED)
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	2 x 24 V DC / LED yellow (for each 16-channel block)
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	90 x 87.5 x 72	
Length A x width B x height C	mm		145 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

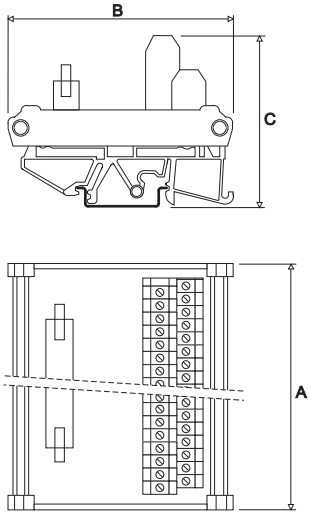
	Type	Order No.	Type	Order No.
Screw connection without LED	RS 32ES H/V	**9445900000**		
Screw connection with LED	RS 32ES-L H/V	**9445910000**		
Tension clamp connection without LED			RS 32ES H/Z	**9447900000** (1)
Tension clamp connection with LED			RS 32ES-L H/Z	**9447910000**
Note	**: compact version**		(1) Available upon customer request	

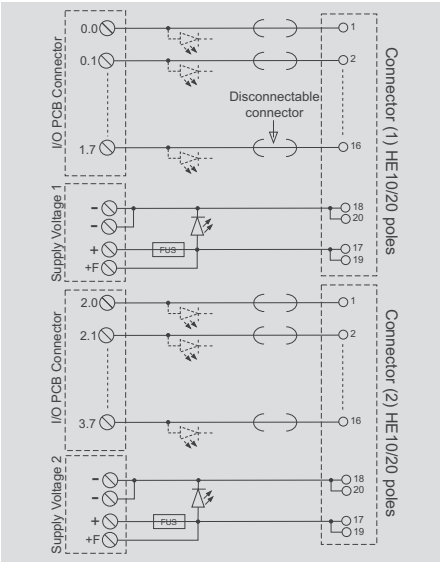
For 32-channel digital I/O cards System H

RS ES-S-I - 32 disconnectable channels

H System – 1-wire
Version: screw connecion

Dimensions





Technical data

Connection		
Connection to PLC		2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		24 V DC ± 10%
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		Yes - each channel
LED status indication per channel		Green
Polarity distribution		–
Max. current of joint potential		–
PLC card supply voltage / LED voltage status		24 V DC / LED yellow
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 50 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		0.5 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	220 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.
Screw connection without LED		
Screw connection with LED	RS 32ES-S-I-L H/V	**9445870000**
Tension clamp connection without LED		
Tension clamp connection with LED		
Note		

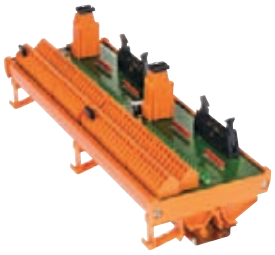
For 32-channel digital I/O cards System H

RS ES-D - 32-channel

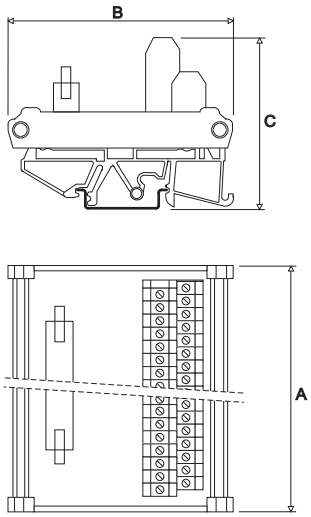
H-System – 2-wire (common + or –)
Version: screw connection - compact

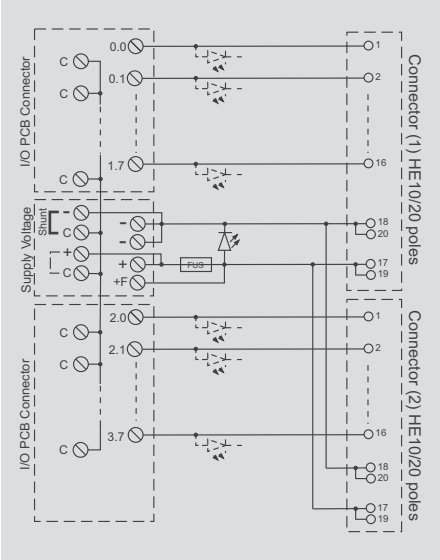
RS ES-D - 32-channel

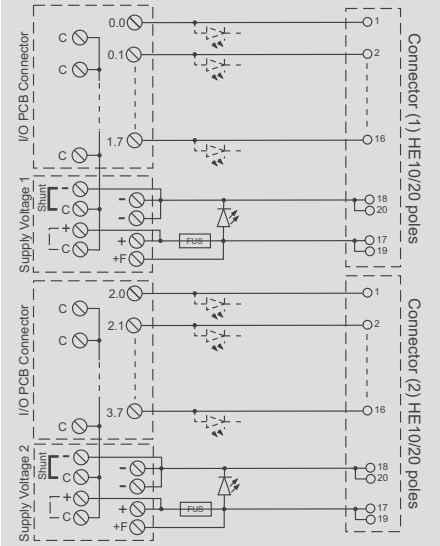
H-System – 2-wire (common + or –)
Version: tension clamp



Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		24 V DC ± 10%	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green	Green
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	2 x 24 V DC / LED yellow (for each 16-channel block)
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version	170 x 87.5 x 72	
Length A x width B x height C	mm		230 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED				
Screw connection with LED	RS 32ES-D-L H/V	**9445930000**		
Tension clamp connection without LED				
Tension clamp connection with LED			RS 32ES-D-L D/Z	**9447930000**
Note	**: compact version**			

For 32-channel digital I/O cards System H

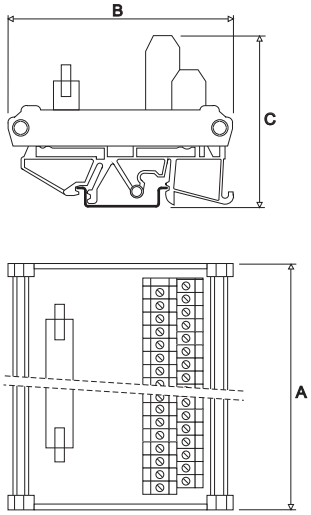
RS ES-D-I - 32 disconnectable channels

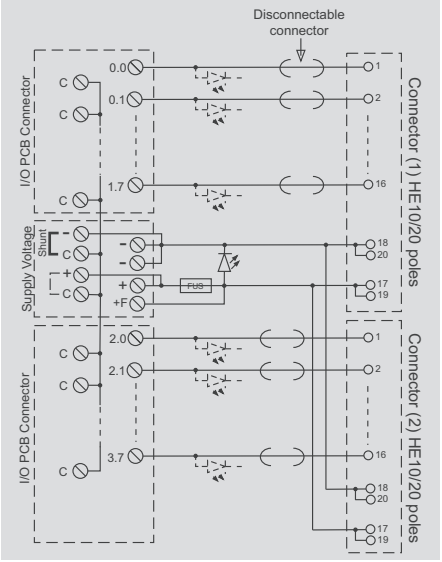
H-System – 2-wire (common + or –)
Version: screw connection - compact

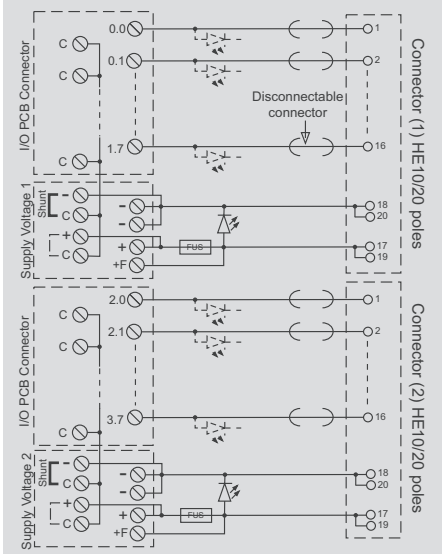
RS ES-D-I - 32 disconnectable channels

H-System – 2-wire (common + or –)
Version: tension clamp

Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		24 V DC ± 10%	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		Yes - each channel	Yes - each channel
LED status indication per channel		Green	Green
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	170 x 87.5 x 72	
Length A x width B x height C	mm		230 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

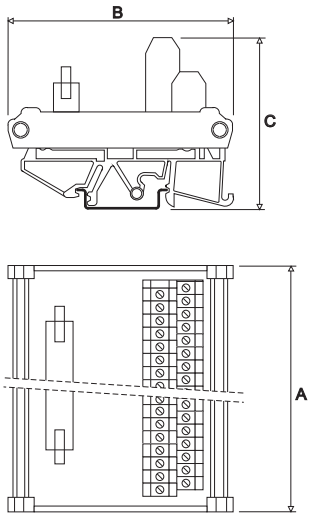
	Type	Order No.	Type	Order No.
Screw connection without LED				
Screw connection with LED	RS 32ES-D-I-L H/V	**9445950000**		
Tension clamp connection without LED				
Tension clamp connection with LED			RS 32ES-D-I-L H/Z	**9447950000** (1)
Note	: compact version		(1) Available upon customer request	

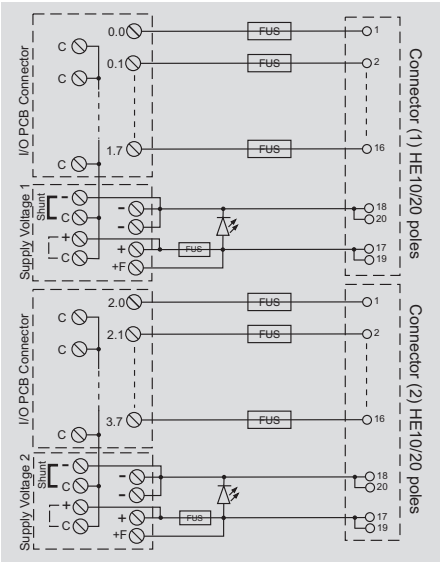
For 32-channel digital I/O cards System H

RS ES-D-F - 32-channel with fuse

H-System – 2-wire (common + or –)
Version: screw connection

Dimensions





Technical data

Connection		
Connection to PLC		2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		≤ 25 V AC 50 V DC
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		0.5 A fuse on each channel
Disconnection per channel		–
LED status indication per channel		–
Polarity distribution		+ or – selectable with a jumper
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 50 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		0.5 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	248 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires

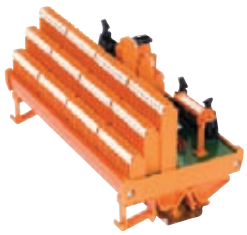
Ordering data

	Type	Order No.
Screw connection without LED	RS 32ES-D-F H/V	**9445980000**
Screw connection with LED		
Tension clamp connection without LED		
Tension clamp connection with LED		
Note		

For 32-channel digital I/O cards System H

RS ES-T - 32-channel

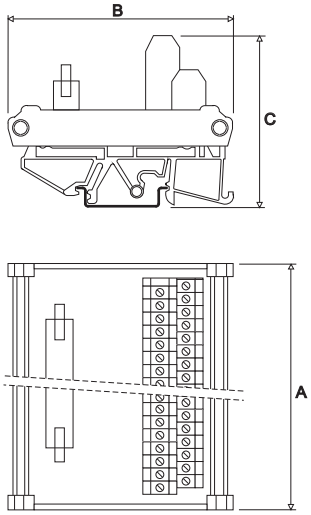
H System – 3-wire (common + and –)
Version: screw connection - compact

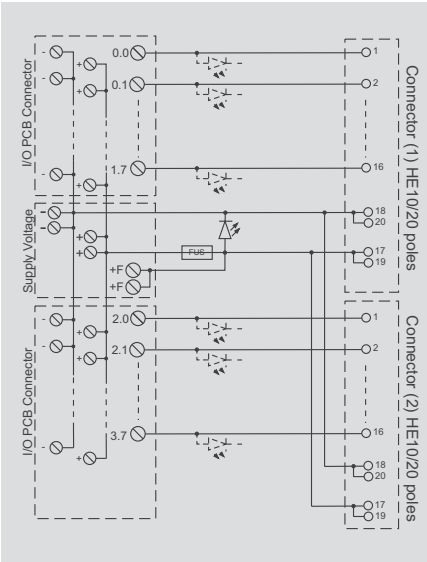


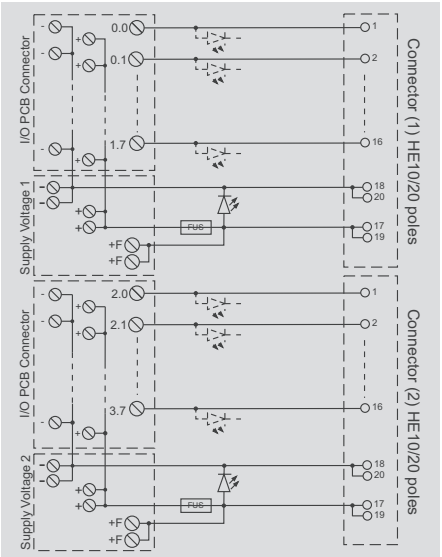
RS ES-T - 32-channel

H System – 3-wire (common + and –)
Version: tension clamp

Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green (versions with LED)	Green
Polarity distribution		+ and –	+ and –
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	2 x 24 V DC / LED yellow (for each 16-channel block)
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	176 x 87.5 x 72	
Length A x width B x height C	mm		221 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS 32ES-T H/V	**9445960000**		
Screw connection with LED	RS 32ES-T-L H/V	**9445970000**		
Tension clamp connection without LED				
Tension clamp connection with LED			RS 16ES-T-L H/Z	**9447970000**
Note	: compact version			

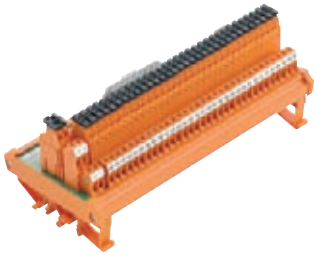
For 32-channel digital I/O cards System R

RS ES - 32-channel

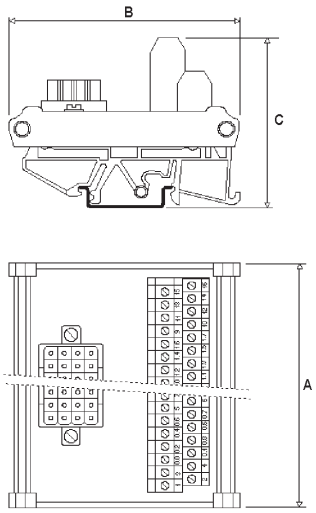
System R – 1-wire cabling
Version: screw connection

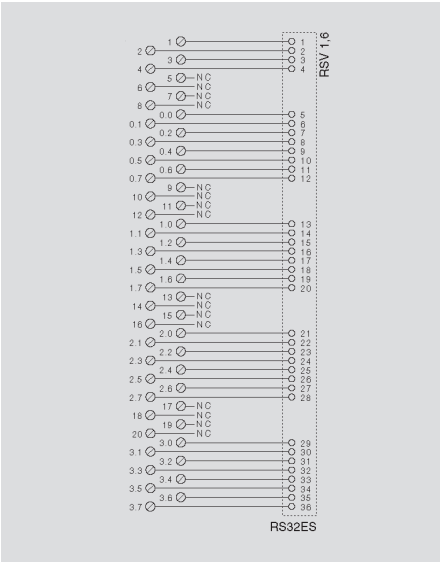
RS ES-I – 32 disconnectable channels

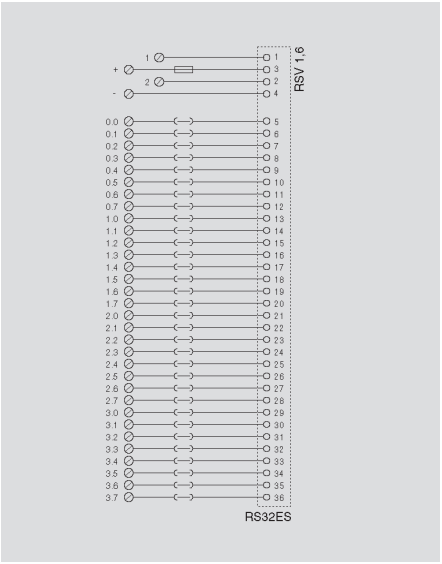
System R – 1-wire cabling
Version: screw connection



Dimensions







Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 36 pole	RSV 1.6 connector - 36 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	250 V max
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		–	–
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		max 150 V UC	max 250 V
PLC card supply current		2 A	2 A
PLC card supply current fuse		–	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	250 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.7 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	148 x 87.5 x 72	188 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS32ES RSV1,6/V	**9441510000**	RS32ES-I RSV1,6/V	**9441870000**
Screw connection with LED				
Note				

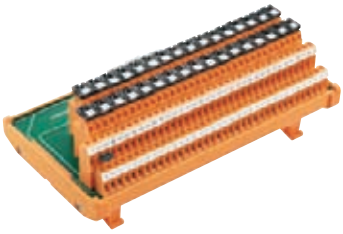
For 32-channel digital I/O cards System R

RS ES-DP - 32-channel

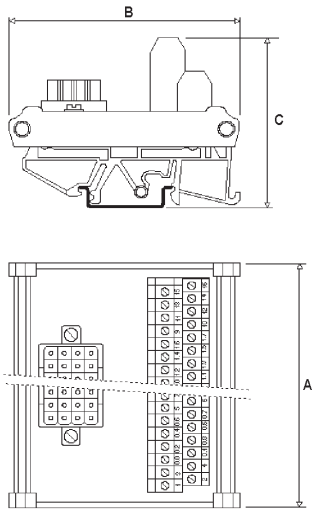
R-System – 2-wire (common + or –)
Version: screw connection

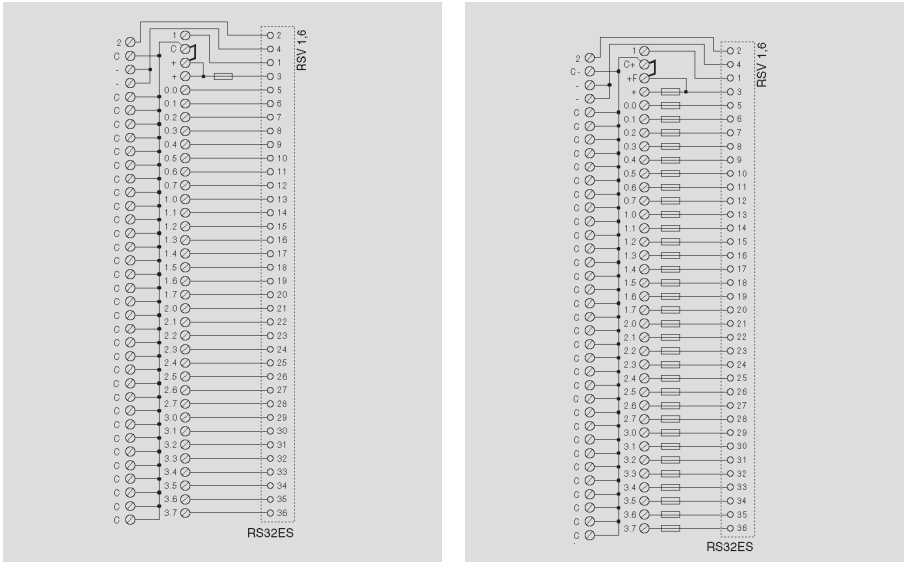
RS ES-DP/F - 32-channel with fuse

R-System – 2-wire (common + or –)
Version: screw connection



Dimensions





Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 36 pole	RSV 1.6 connector - 36 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	max 150 V UC
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	1 A fuse on each channel
Disconnection per channel		–	–
LED status indication per channel		–	–
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		max 150 V UC	max 150 V UC
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	< 150 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.1 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	200 x 87.5 x 72	200 x 109 x 84
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

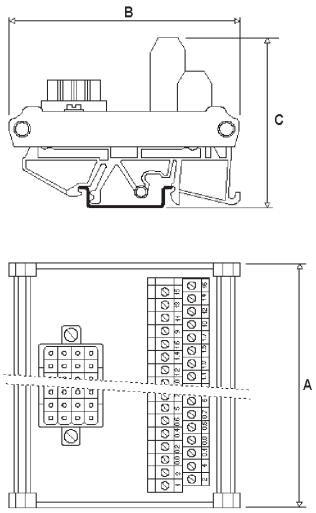
	Type	Order No.	Type	Order No.
Screw connection without LED	RS32ES-DP RSV1,6/V	**9441710000**	RS32ES-DP/F RSV1,6/V	**9441570000** (1)
Screw connection with LED				
Note			(1) Available upon customer request	

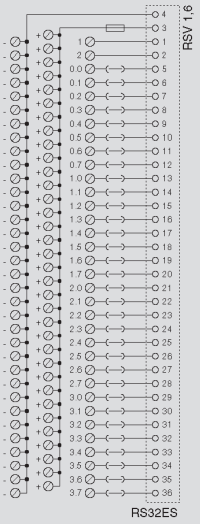
For 32-channel digital I/O cards System R

RS ES-3 E/I - 32 disconnectable channels

R System – 3-wire (common + and –)
Version: screw connection

Dimensions





Technical data

Connection		
Connection to PLC		RSV 1.6 connector - 36 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		max 150 V UC
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		Yes - each channel
LED status indication per channel		–
Polarity distribution		+ and –
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		max 150 V UC
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 150 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.1 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	188 x 109 x 84

Note	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.
Screw connection without LED	RS32E-3E/I RSV1,6/V	**9441610000**
Screw connection with LED		

Note

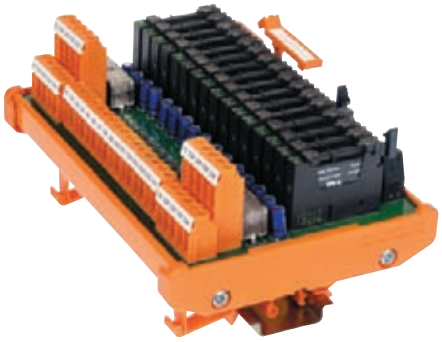
Type			Functionalities				Modules		
No. of channels	H or R System	Type of wiring	Compact version	Connection: Screw	Connection: Tension c.	1 LED per chan.	Pluggable optocoupler	Order No.	Type	Page
16 channels	H System	2-wire	✓	✓		✓	OD	**9446900000**	RS16E-OD 24-48V H/V	**B.40**
			✓	✓		✓	OD	9446910000 (*)	RS16E-OD 115 H/V	**B.41**
			✓	✓		✓	OD	9446920000 (*)	RS16E-OD 230V H/V	**B.41**

Note: **Preferred articles in bold** **(*) Available upon customer request**

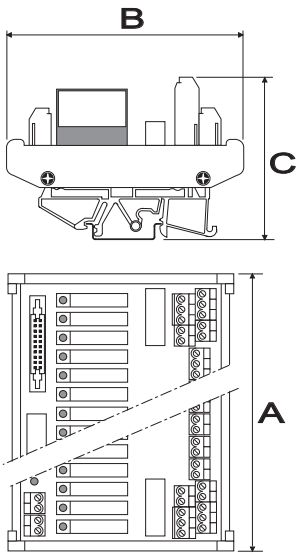
For 16-channel digital cards

RSE OD – 16-channel

System H – Pluggable optocouplers
Version: screw connection

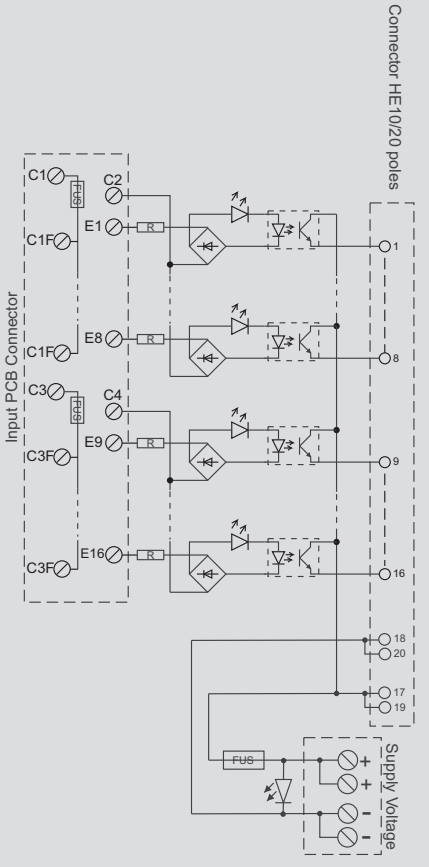


Dimensions



Technical data

Connection	
Connection to PLC	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	
Input data	
Operating Voltage	24…48 V UC
Input current AC	9…21 mA AC
Input current DC	7…16 mA DC
Switching voltage AC	20 V AC
Switching voltage DC	19 V DC
Max. switching current/voltage	100 mA / 48 V–
Optocoupler polarisation voltage	24 up to 48 V DC
Continuous current per optocoupler	100 mA
Fuse (optocoupler power supply)	1 A
I/O card max. supply current	2 A
Insulation coordination (EN50178)	
Rated voltage	< 50 V AC
Overvoltage category	III
Pollution degree	2
Insulation test voltage	0.5 KV DC
Ambient temperature	-25…50 °C
Storage temperature	-40…60 °C
Dimensions	
Length A x width B x height C ›‹ version mm	148 x 109 x 72
Note	(*) Observe the max. permissible current for the common wires



Ordering data

	Type	Order No.
24-48 V version	RS16E-OD 24-48V H/V ›‹	**9446900000**
Note	›‹ **: compact version**	

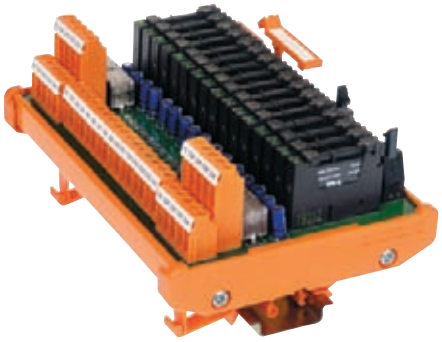
Accessories

Note	Optocoupler - 4061180000

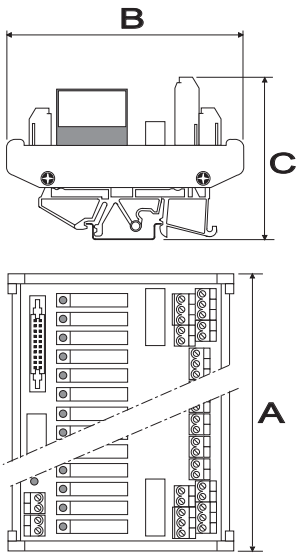
For 16-channel digital cards

RSE OD – 16-channel

System H – Pluggable optocouplers
Version: screw connection

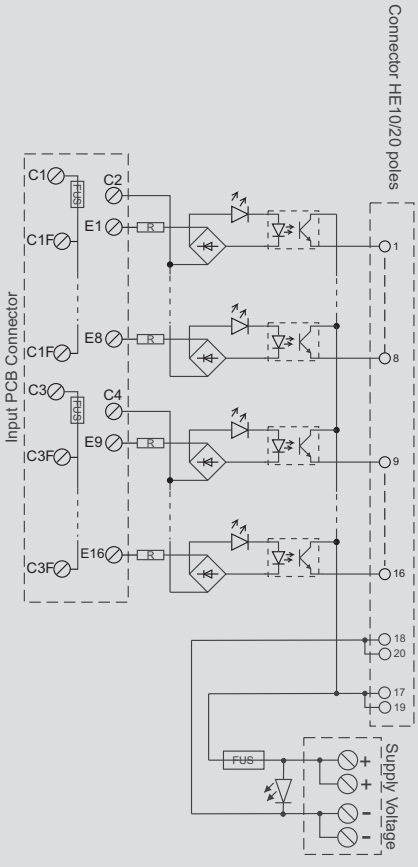


Dimensions



Technical data

Connection	
Connection to PLC	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	
Input data	
Operating Voltage	115 V UC / 230 V AC
Input current AC	7 mA AC / 7 mA AC
Input current DC	7 mA DC / –
Switching voltage AC	80 V AC / 150 V AC
Switching voltage DC	75 V DC / –
Max. switching current/voltage	100 mA / 48 V–
Optocoupler polarisation voltage	24 up to 48 V DC
Continuous current per optocoupler	100 mA
Fuse (optocoupler power supply)	1 A
I/O card max. supply current	2 A
Insulation coordination (EN50178)	
Rated voltage	250 V AC
Overvoltage category	III
Pollution degree	2
Insulation test voltage	1.2 KVrms
Ambient temperature	-25…40 °C
Storage temperature	-40…60 °C
Dimensions	
Length A x width B x height C ⋊⋉ version mm	148 x 109 x 72
Note	(*) Observe the max. permissible current for the common wires (**) No main-circuits



Ordering data

	Type	Order No.
115 V version	RS16E-OD 115 H/V ⋊⋉	**9446910000** (1)
230 V version	RS16E-DO 230V H/V ⋊⋉	**9446920000** (1)
Note	⋊⋉ **: compact version** (1) Available upon customer request	

Accessories

Note	Optocoupler - 4061180000

Module Overview - Relay Outputs for Digital Cards

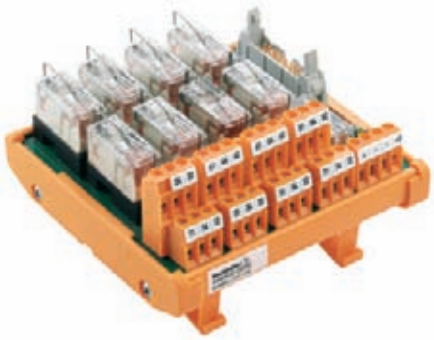
Type		Functionalities							Modules		
No. of channels	H or R System	Compact version	Connection: Screw	Connection: Tension c.	Type of contact	Fuse	Force function	Solen. ctrl.	Order No.	Type	Page
8 chan.	H System	✓	✓		1CO				**9445000000**	RSM8C-1CO H/V	**B.43**
		✓		✓	1CO				9447000000	RSM8C-1CO H/Z	**B.43**
12 chan.	H System	✓	✓		1CO				9445060000 (*)	RSM12C-1CO H/V	**B.44**
16 chan-nels	H System		✓		1CO				**9444610000**	RSM16-NV/1CO 24V (-/+)	**B.45**
				✓	1CO				9444660000	RSM16-NZ/1CO 24V (-/+)	**B.45**
		✓	✓		1CO				**9445100000**	RSM16C-1CO H/V	**B.46**
		✓		✓	1CO				9447100000	RSM16C-1CO H/Z	**B.46**
		✓	✓		1CO				1079390000 (*)	RSM16 SLIM-1CO H/V	**B.47**
		✓	✓		1CO				1094970000 (*)	RSM16 SLIM-1CO H/V SOCKET	**B.47**
			✓		2CO				9445160000	RSM16-2CO H/V	**B.48**
		✓		✓	2CO				9447160000	RSM16-2CO H/Z	**B.48**
			✓		1CO		✓		9445140000	RSM16-1CO-Fo H/V	**B.49**
			✓		1CO	✓			9445120000	RSM16-1CO-Fu H/V	**B.50**
				✓	1CO	✓			9447120000	RSM16-1CO-Fu H/Z	**B.50**
			✓		1NO			✓	9445180000	RSM16 1T/Solen. ctrl 24V DC H/V	**B.51**
32 chan-nels	H System	✓	✓		1CO				1108470000 (*)	RSM32C-1CO 24VDC H/V	**B.52**
		✓		✓	1CO				9447200000	RSM32C-1CO H/Z	**B.52**
			✓		1CO	✓			9445220000	RSM32-1CO-Fu H/V	**B.53**

Note: **Preferred articles in bold** **(*) Available upon customer request**

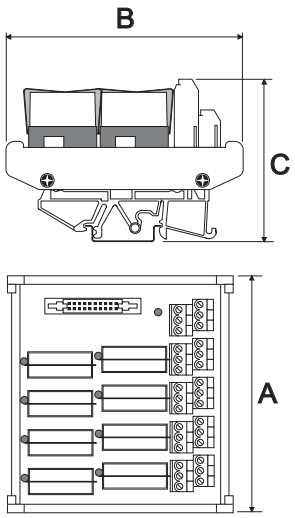
For 8-channel digital output cards

RSM-C – 8-channel

H System – 1CO relay
Versions: screw / tension clamp

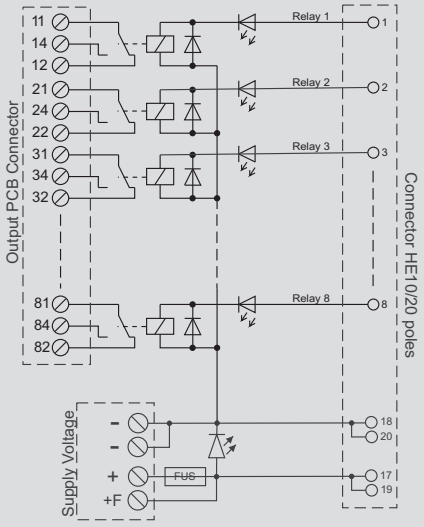


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	110 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM8C-1CO H/V	**9445000000**
Tension clamp connection	RSM8C-1CO H/Z	**9447000000**
Note		

Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

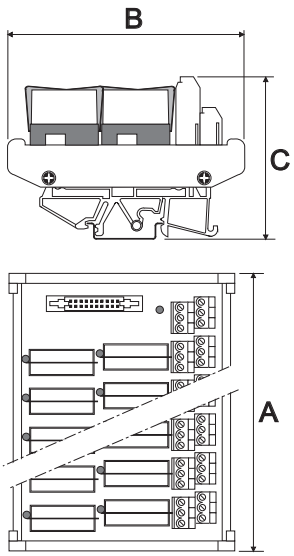
Relay Outputs for Digital Cards

For 12-channel digital output cards

RSM-C – 12-channel

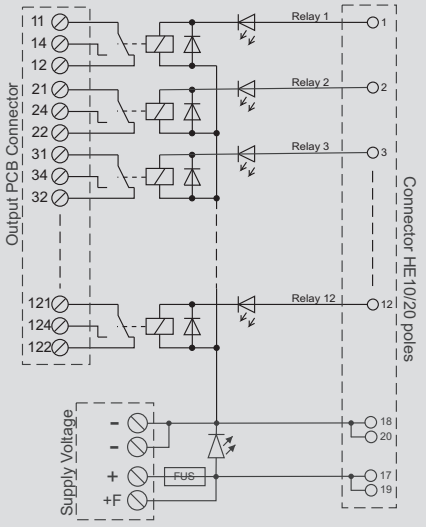
H System – 1CO relay
Version: screw connection

Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10^6 operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	147 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM12C-1CO H/V	**9445060000**
Tension clamp connection		
Note		

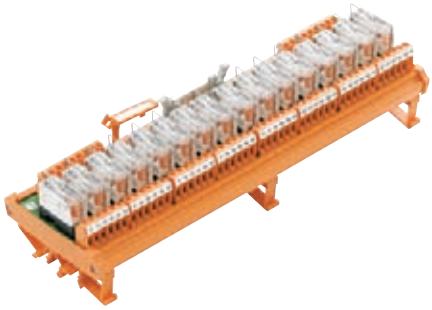
Accessories

Note	Relay RCL314024 - 869326000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

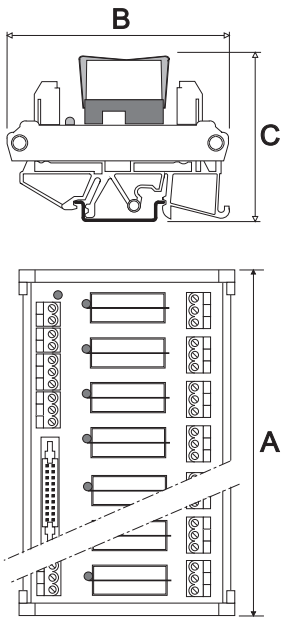
For 16-channel digital output cards

RSM-S – 16-channel

1CO relay
Versions: screw / tension clamp

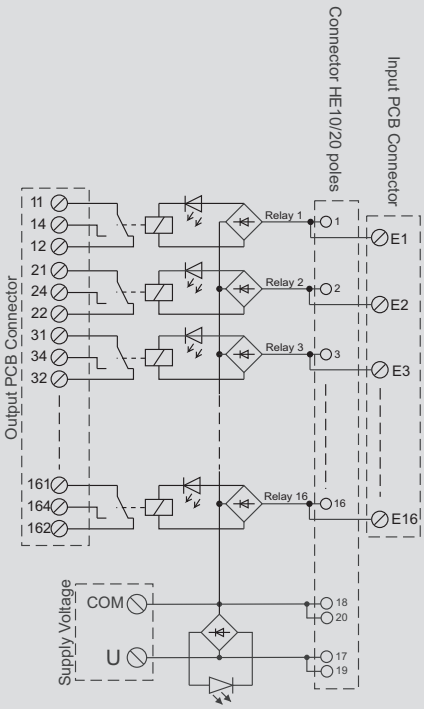


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		22 mA / 0.5 W
Coil status indicator		LED green
PLC card supply current fuse		–
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	267 x 87.5 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-NV/1CO 24V (-/+)	**9444610000**
Tension clamp connection	RSM16-NZ/1CO 24V (-/+)	**9444660000**
Note		

Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

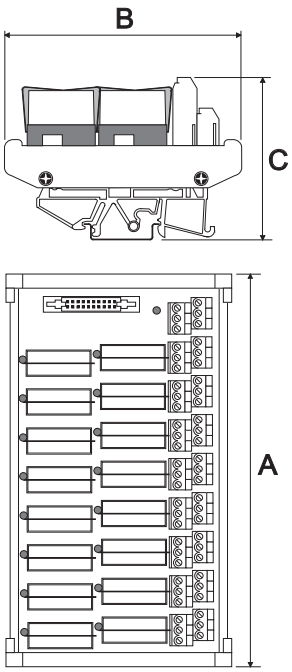
Relay Outputs for Digital Cards

For 16-channel digital output cards

RSM-C – 16-channel

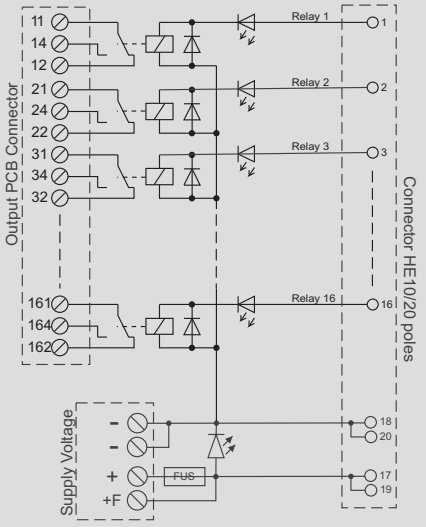
H System – 1CO relay
Versions: screw / tension clamp

Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	185 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16C-1CO H/V	**9445100000**
Tension clamp connection	RSM16C-1CO H/Z	**9447100000**
Note		

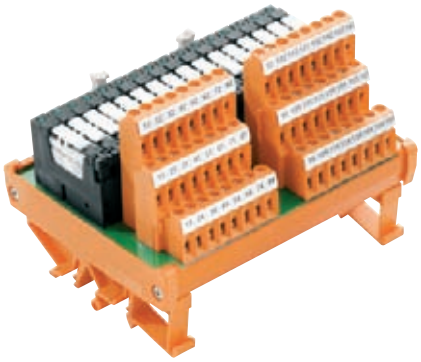
Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

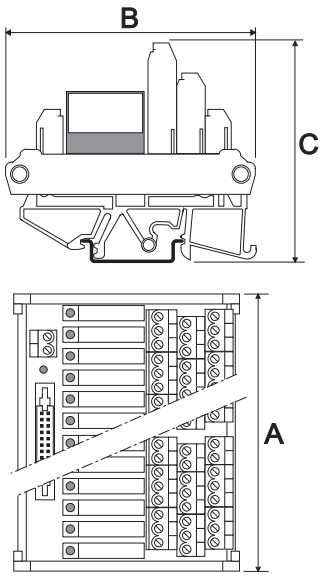
For 16-channel digital output cards

RSM SLIM – 16-channel

H System – with 1CO relay / empty socket
Version: screw connection - compact

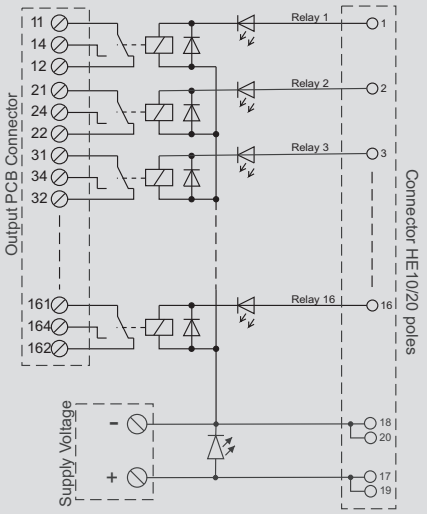


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		8 mA / 0.2 W
Coil status indicator		LED green
PLC card supply current fuse		–
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		1500 VA / 250 V AC
Relay type		6 A version
Max. continuous/inrush current		4 A/6 A
Contact material		AgSnO2
Fuse (contact)		–
Mechanical service life		5 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	version mm	111 x 87.5 x 85
Note		(*) No main-circuits



Ordering data

	Type		Order No.
Equipped with 1 CO relay screw connection	RSM16 SLIM-1CO H/V	⟩⟨	**1079390000** (1)
Empty slot, screw connection	RSM16 SLIM-1CO H/V SOCKET	⟩⟨	**1094970000** (1)
Note	⟩⟨ **: compact version**		
	(1) Available upon customer request		

Accessories

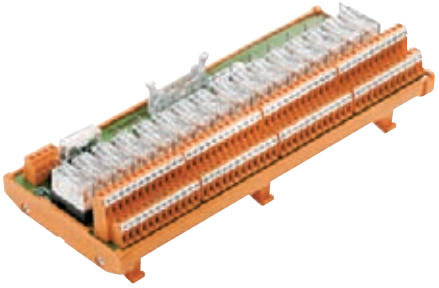
Note	1CO relay - 4061590000 Optocoupler ODC 24V/2A - 4061190000

Relay Outputs for Digital Cards

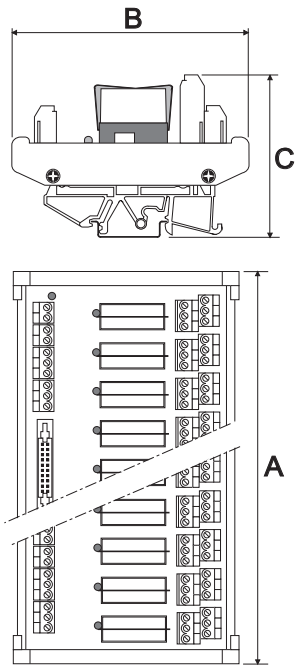
For 16-channel digital output cards

RSM-2CO – 16-channel

System H – 2CO relay
Versions: screw / tension clamp

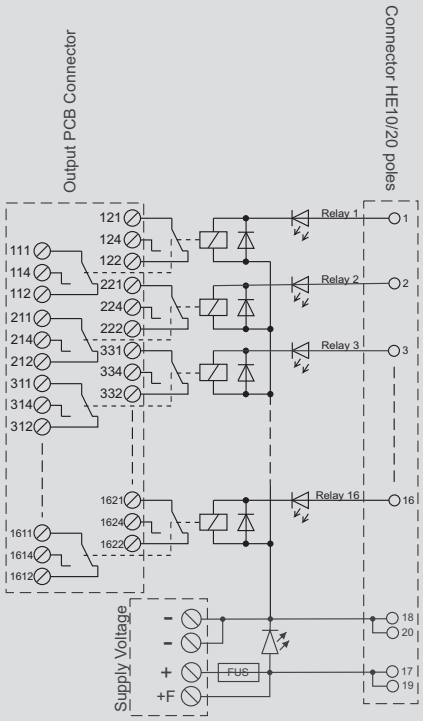


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		2CO
Max. switching power/voltage		2000 VA / 250 V AC
Relay type		2x8 A version
Max. continuous/inrush current		4 A/8 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ switching cycles
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	263 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-2CO H/V	**9445160000**
Tension clamp connection	RSM16-2CO H/Z	**9447160000**
Note		

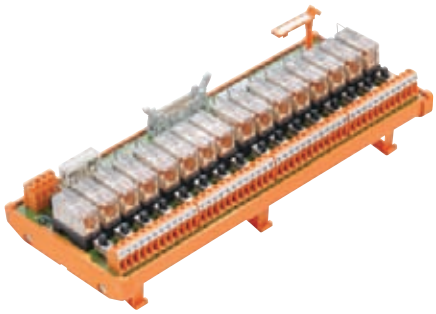
Accessories

Note	2CO Relay - 4058570000

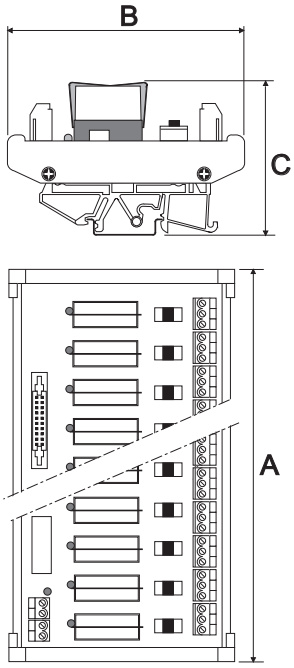
For 16-channel digital output cards

RSM-Fo - 16-channel with force function

H System – 1CO relay
Version: screw connection

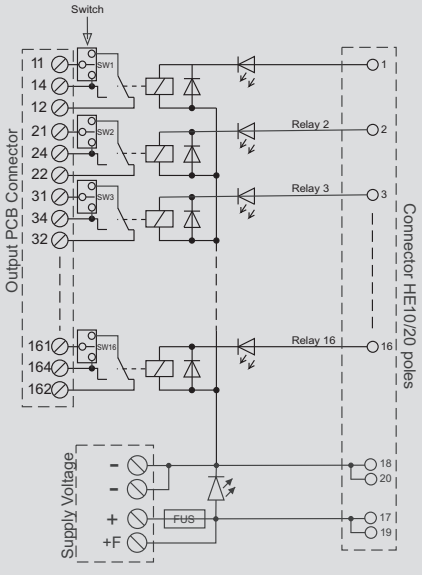


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		2 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	263 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-1CO-Fo H/V	**9445140000**
Tension clamp connection		
Note		

Accessories

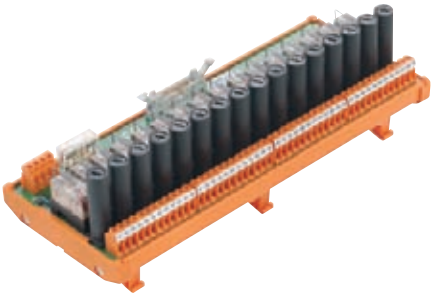
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Relay Outputs for Digital Cards

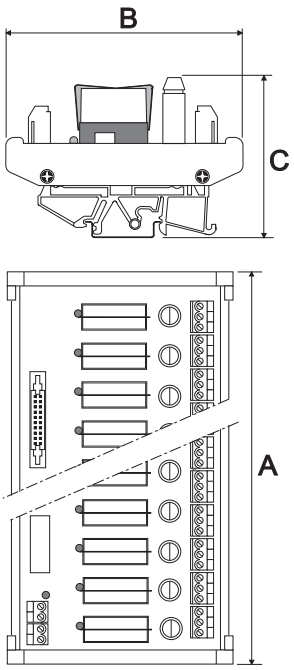
For 16-channel digital output cards

RSM-Fu – 16-channel with fuse

H System – 1CO relay
Versions: screw / tension clamp

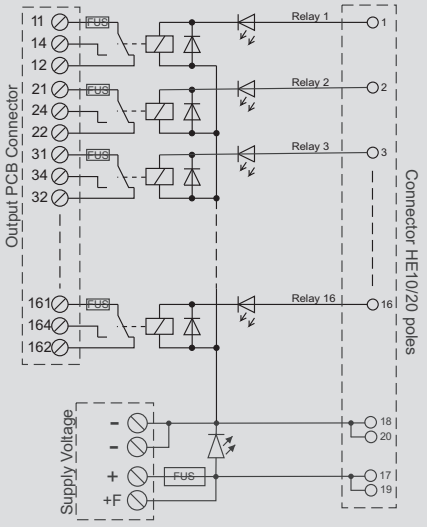


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.5...1.5 / 0.5...1.5 mm² (AWG 16...26)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		5 A fuse on each channel
Mechanical service life		30 x 10^6 operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	261 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-1CO-Fu H/V	**9445120000**
Tension clamp connection	RSM16-1RT-Fu H/Z	**9447120000**
Note		

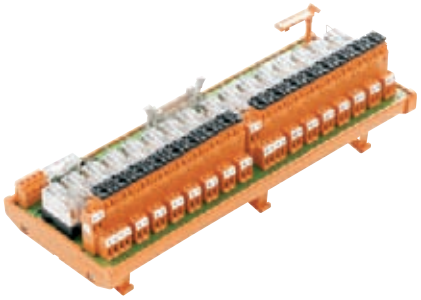
Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

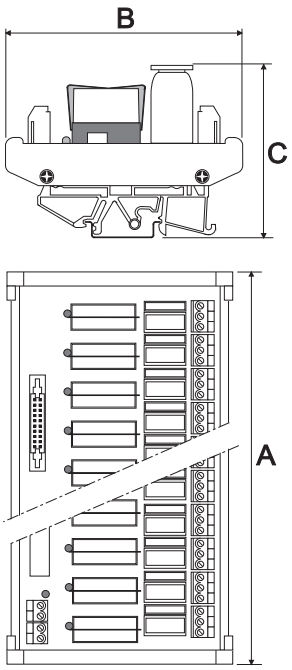
For 16-channel digital output cards

RSM-Solen. ctrl. - 16-channel for solenoid

H System – 1O relay
Version: screw connection

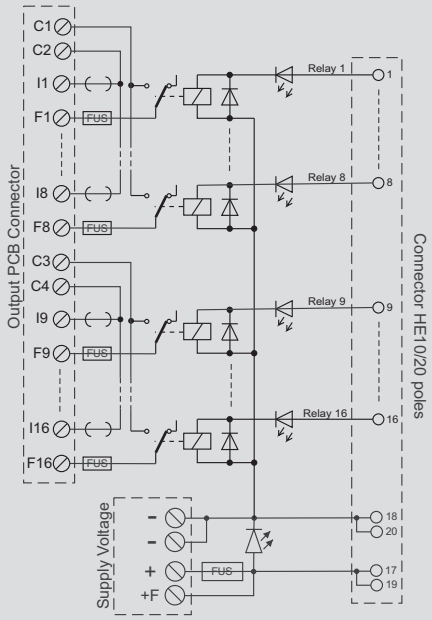


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		2 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	290 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16 1T/Solen. ctrl. 24V DC H/V	**9445180000**
Tension clamp connection		
Note		

Accessories

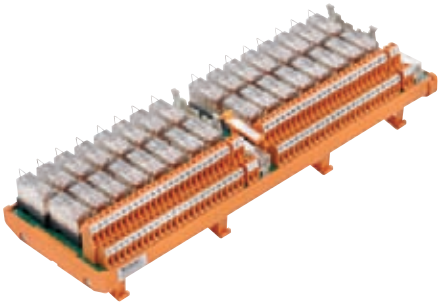
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Relay Outputs for Digital Cards

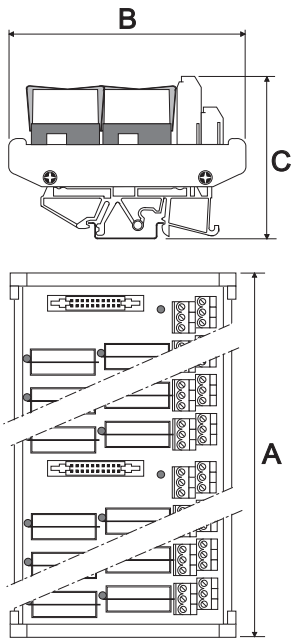
For 32-channel digital output cards

RSM-C – 32-channel

H System – 1 CO relay
Versions: screw / tension clamp

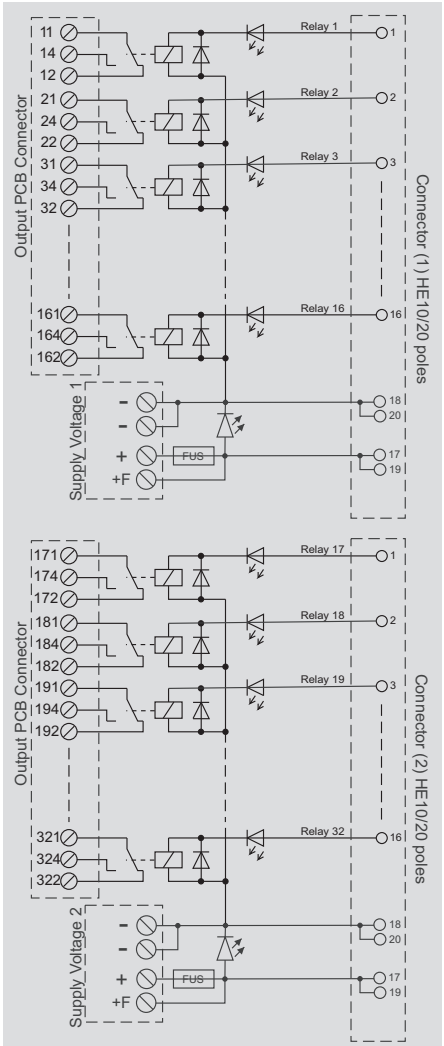


Dimensions



Technical data

Connection		
Connection to PLC		2 x HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	365 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM32C-1CO 24VDC H/V	**1108470000** (1)
Tension clamp connection	RSM32C-1CO H/Z	**9447200000**
Note	(1) Available upon customer request	

Accessories

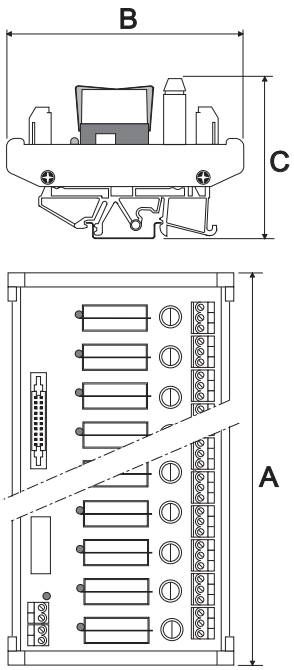
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

For 32-channel digital cards

RSM-Fu – 32-channel with fuse

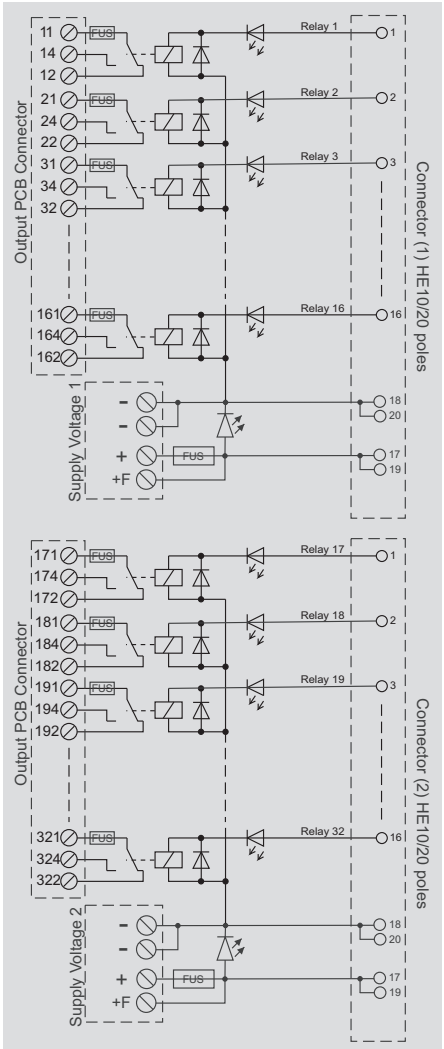
H System – 1 CO relay
Version: screw connection

Dimensions



Technical data

Connection		
Connection to PLC		2 x HE 10 20-pole connectors
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		5 A fuse on each channel
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	511 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM32-1CO-Fu H/V	**9445220000**
Tension clamp connection		
Note		

Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Module Overview – Analog Input/Output

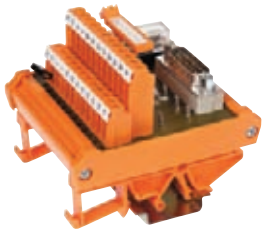
Type		Functionalities						Modules		
Number of channels	PLC	Compact version	Connection: Screw	Connection: Tension c.	Common distribution	Discon-nectable	Test points	Order No.	Type	Page
4 channels	Standard		●		●			**9448000000**	RS4AIO-DP SD/V	**B.55**
			●		●	●	●	9448100000	RS4AIO/I-M-DP SD/V	**B.55**
8 chan-nels	Standard		●		●			**9448010000**	RS8AIO-DP SD/V	**B.56**
			●		●	●	●	9448110000	RS8AIO/I-M-DP SD/V	**B.56**
				●	●	●	●	9449110000	RS8AIO/I-M-DP SD/Z	**B.56**
8 channels P	Premium (Télémécanique)		●		●	●		9448030000	RS8AI PREM/APR SD/V	**B.57**
9 channels M	Micro (Télémécanique)		●					9448040000	RS8E1AO MICRO SD/V	**B.57**
16 chan-nels	Standard		●		●			**9448020000**	RS16AIO-DP SD/V	**B.58**
			●		●	●	●	9448120000	RS16AIO/I-M-DP SD/V	**B.58**
				●	●	●	●	9449120000	RS16AIO/I-M-DP SD/Z	**B.58**

Note: **Preferred articles in bold**

For 4-channel analog I/O cards

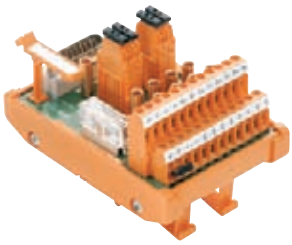
RS AIO-DP - 4-channel

Common distribution
Version: screw connection

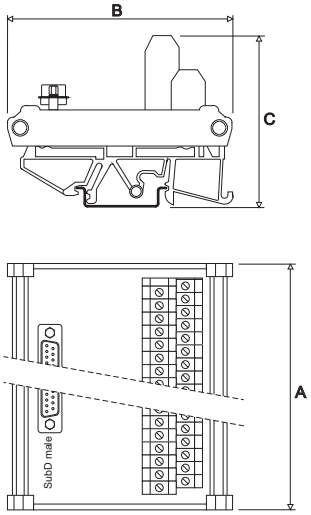


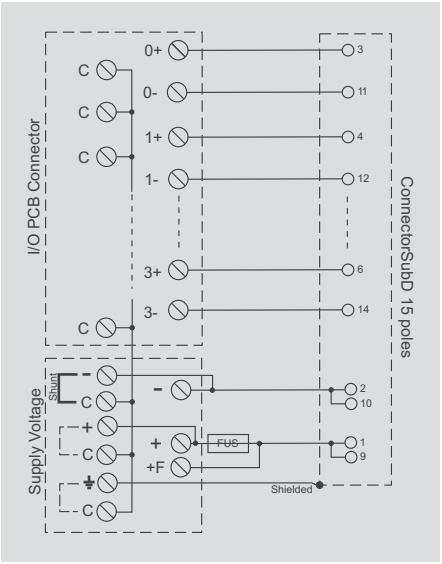
RS AIO/I-M-DP - 4-channel

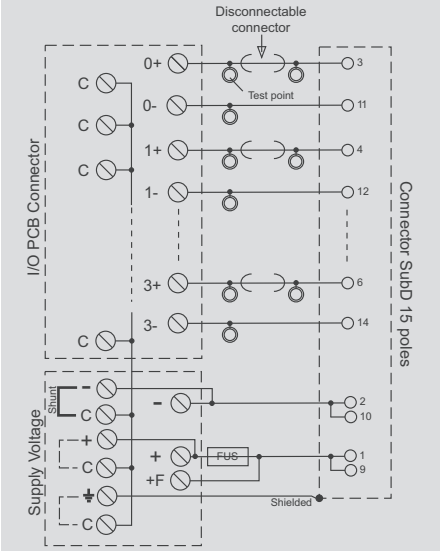
Common distribution, disconnection and test
Version: screw connection



Dimensions







Technical data

Connection		
Connection to PLC	15-pole D-SUB male connector	15-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	–	–
Input-Output Data		
Number of channels	4	4
Operating voltage	≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution	Shield, + or – (selectable with jumper)	Shield, + or – (selectable with jumper)
PLC card supply current fuse	3.15 A	3.15 A
Disconnection	–	Yes - each channel
Current measuring test point	–	Yes - 2 female testing points dia. 4 mm
Voltage measuring test point	–	Yes
Continuous shielding	Yes	Yes
Insulation coordination (EN50178)		
Rated voltage	< 50 V AC	< 50 V AC
Overvoltage category	III	III
Pollution degree	2	2
Insulation test voltage	0.5 KV DC	0.5 KV DC
Ambient temperature	-25…50 °C	-25…50 °C
Storage temperature	-40…60 °C	-40…60 °C

Dimensions			
Length A x width B x height C	mm	75 x 87.5 x 72	73 x 109 x 81
Note			

Ordering data

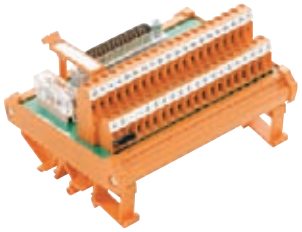
	Type	Order No.	Type	Order No.
Screw connection	RS4AIO-DP SD/V	**9448000000**	RS4AIO/I-M-DP SD/V	**9448100000**
Tension clamp connection				
Note				

Input /Output for Analog Cards

For 8-channel analog I/O cards

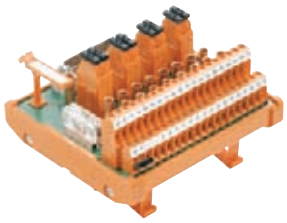
RS AIO-DP - 8-channel

Common distribution
Version: screw connection

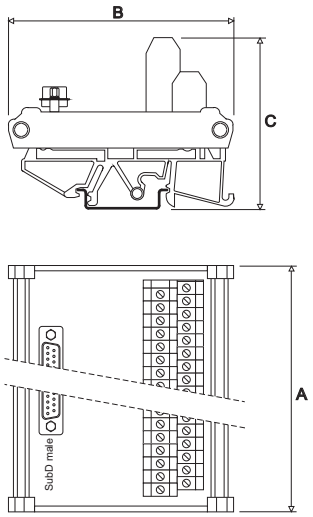


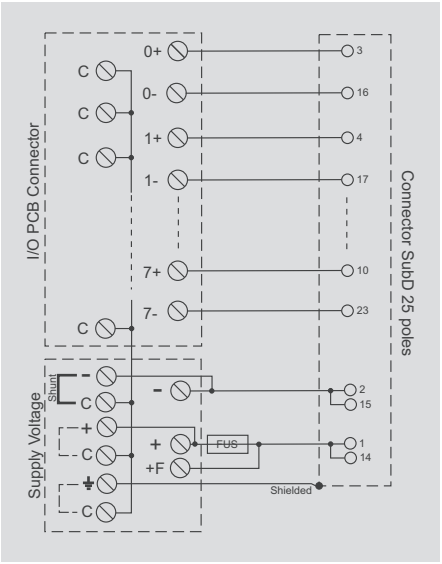
RS AIO/I-M-DP - 8-channel

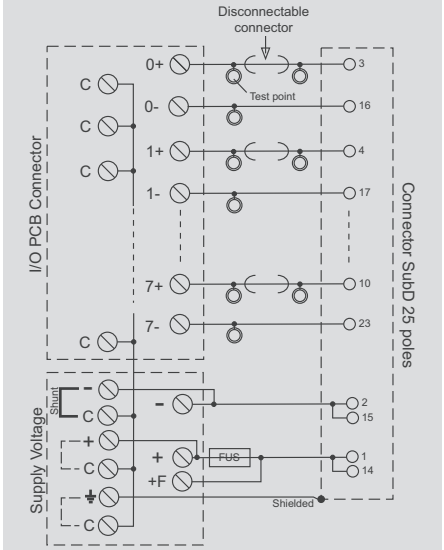
Common distribution, disconnection and test
Versions: screw / tension clamp



Dimensions







Technical data

Connection		
Connection to PLC	25-pole D-SUB male connector	25-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	–	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input-Output Data		
Number of channels	8	8
Operating voltage	≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution	Shield, + or – (selectable with jumper)	Shield, + or – (selectable with jumper)
PLC card supply current fuse	3.15 A	3.15 A
Disconnection	–	Yes - each channel
Current measuring test point	–	Yes - 2 female testing points dia. 4 mm
Voltage measuring test point	–	Yes - 2 female testing points dia. 4 mm
Continuous shielding	Yes	Yes
Insulation coordination (EN50178)		
Rated voltage	< 50 V AC	< 50 V AC
Overvoltage category	III	III
Pollution degree	2	2
Insulation test voltage	0.5 KV DC	0.5 KV DC
Ambient temperature	-25…50 °C	-25…50 °C
Storage temperature	-40…60 °C	-40…60 °C

Dimensions			
Length A x width B x height C	mm	117 x 87.5 x 72	114 x 109 x 81
Note			

Ordering data

	Type	Order No.	Type	Order No.
Screw connection	RS8AIO-DP SD/V	**9448010000**	RS8AIO/I-M-DP SD/V	**9448110000**
Tension clamp connection			RS8AIO/I-M-DP SD/Z	**9449110000**
Note				

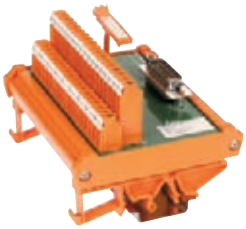
For Télémécanique Premium and Micro PLC analog I/O cards

RS8AI PREM/APR – 8-channel

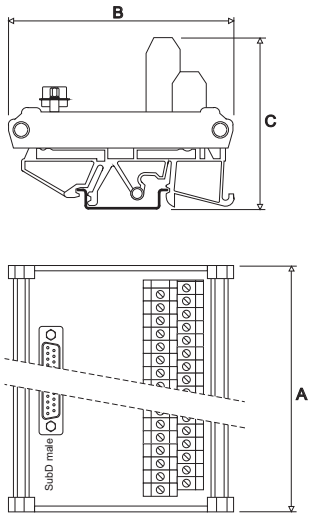
8 analog inputs
Version: screw connection

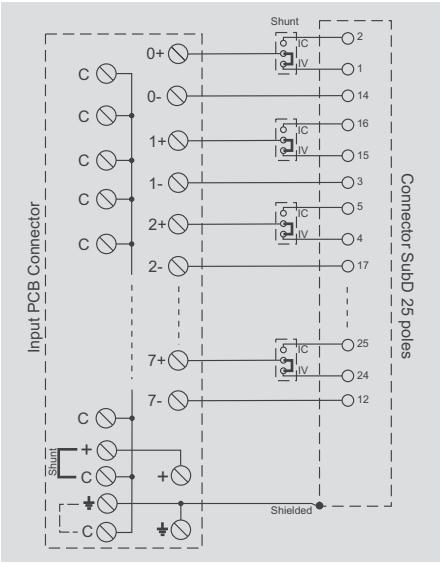
RS8I1OA MICRO – 9-channel

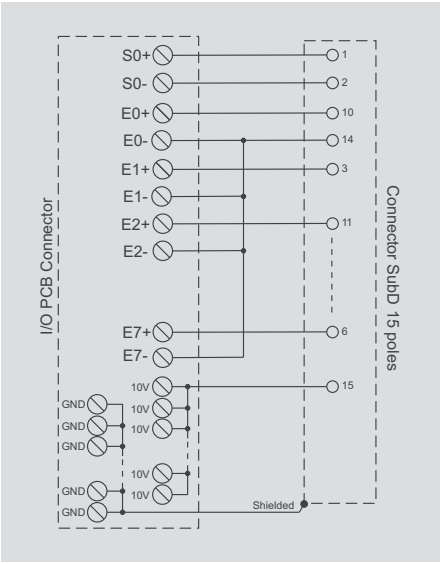
8 analog inputs and 1 output
Version: screw connection



Dimensions







Technical data

Connection			
Connection to PLC		25-pole D-SUB male connector	15-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–	–
Input-Output Data			
Number of channels		8	9
Operating voltage		≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution		Shield, + or – (selectable with jumper)	Shielding
PLC card supply current fuse		–	–
Disconnection		Yes	–
Current measuring test point		–	–
Voltage measuring test point		–	Yes
Continuous shielding		Yes	Yes
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	II
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	116 x 87.5 x 72	100 x 87.5 x 72
Note		Current/Voltage Switchable	

Ordering data

	Type	Order No.	Type	Order No.
Screw connection	RS8AI PREM/APR SD/V	**9448030000**	RS8I1OA MICRO SD/V	**9448040000**
Tension clamp connection				
Note				

Input /Output for Analog Cards

For 16-channel analog I/O cards

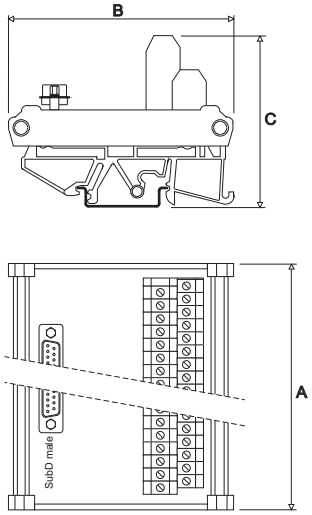
RS AIO-DP - 16-channel

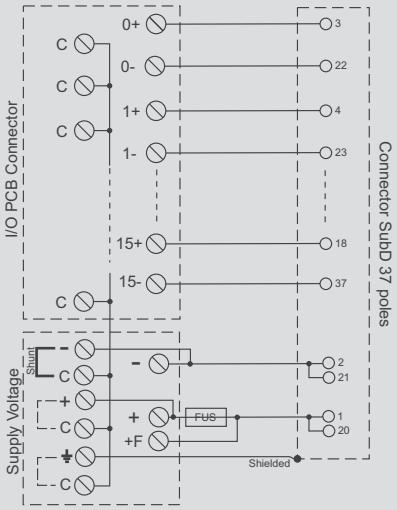
Common distribution
Version: screw connection

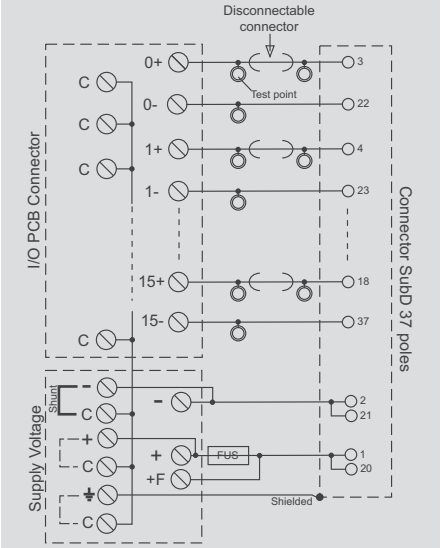
RS AIO/I-M-DP - 16-channel

Common distribution, disconnection and test
Version: screw / tension clamp

Dimensions







Technical data

Connection		
Connection to PLC	37-pole D-SUB male connector	37-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	–	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input-Output Data		
Number of channels	16	16
Operating voltage	≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution	Shield, + or – (selectable with jumper)	Shield, + or – (selectable with jumper)
PLC card supply current fuse	3.15 A	3.15 A
Disconnection	–	Yes - each channel
Current measuring test point	–	Yes - 2 female testing points dia. 4 mm
Voltage measuring test point	–	Yes - 2 female testing points dia. 4 mm
Continuous shielding	Yes	Yes
Insulation coordination (EN50178)		
Rated voltage	< 50 V AC	< 50 V AC
Overvoltage category	III	III
Pollution degree	2	2
Insulation test voltage	0.5 KV DC	0.5 KV DC
Ambient temperature	-25…50 °C	-25…50 °C
Storage temperature	-40…60 °C	-40…60 °C

Dimensions			
Length A x width B x height C	mm	205 x 87.5 x 72	197 x 109 x 81
Note			

Ordering data

	Type	Order No.	Type	Order No.
Screw connection	RS16AIO-DP SD/V	**9448020000**	RS16AIO/I-M-DP SD/V	**9448120000**
Tension clamp connection			RS16AIO/I-M-DP SD/Z	**9449120000**
Note				

Byte Precabling Solution

Byte Precabling Solution

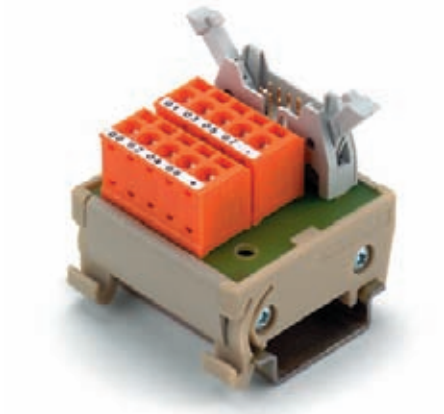
Byte Precabling System	C.2
Selection Guide	C.4
PLC Front Adapter for SIEMENS S7	C.7
PLC Input/Output Module Passive	C.10
PLC Input/Output Module Active	C.16
Adapter and Solution for MICROSERIES Relays and Optocouplers	C.21
Relays – MICROSERIES	C.24
Optos – MICROSERIES	C.27
Universal Cables	C.31
Accessories	C.34

Byte precabling system

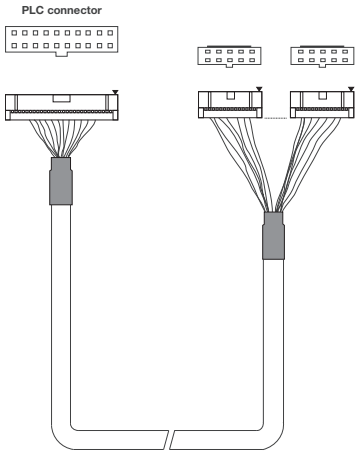
This system allows the user to design a byte wiring system for digital inputs as well as outputs.
It is possible to connect the inputs and outputs either directly by using an 8-channel wiring interface or interface them with relays and optocouplers.
In this case, individual modules from the MICROseries family are used which are directly assembled in groups of 8 and connected by cable to the PLC using an adapter fitted with a 10-pole HE10 female connector.
You can thus use different power supplies on each of the 8 channels.

- Screw or tension clamp connection
- Very compact modules
- Clear and accurate labelling

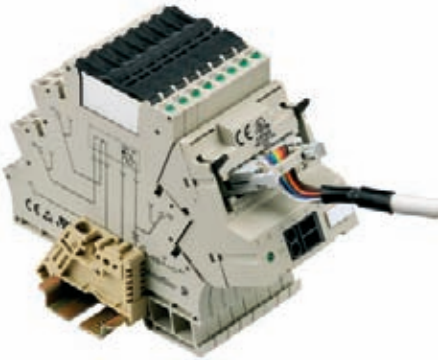
Cable for Siemens S7-300 PLC with front adapter



Wiring interface module for direct connection to the PLC



Cable for Télémécanique Micro and Premium PLCs



Block of eight MICROseries modules for interfacing through relay or optocoupler

Digital MICROinterface adapter

PLC system interface

Wiring and circuitry is becoming increasingly complicated as a result of the growing complexity of machines and systems in process, automation and building services control systems. Conventional connections (point-to-point wiring) between PLC controllers and peripheral devices result in high installation and commissioning cost. The Weidmuller range of PLC system interface products provides the user with a quickly and easily installed output level for SIEMENS SIMATIC® S7.

The specific front adapters replace the usual screw terminal technology used on the PLC input/output cards. 40- or 10-pole connectors transfer the PLC signals to the active or passive components via pre-assembled control leads.

The PLC signals are converted either
- in double word mode to a 40-pole ribbon cable connector, or
- in byte mode to 4 ribbon cable connectors each with 10 poles.

PLC I/O cards usually have two connection systems:
- screw clamp
- crimp connectors

In both cases, the signals have to be wired individually with the corresponding connection elements.

Disadvantages of individual wiring:
- High assembly cost
- The risk of wiring mistakes increases with the number of individual wires at one point
- Requires considerable space in the switchboard
- High installation workload
- Time-consuming routing and assembly of connecting leads
- High labelling and documentation workload

System advantages

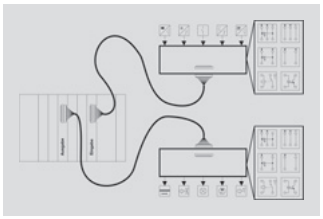
- **Fast**
  - Reduced planning and design time
  - Time-saving installation
  - Less time required for commissioning and troubleshooting
  - Minimized wiring effort on site thanks to plug-type connectors

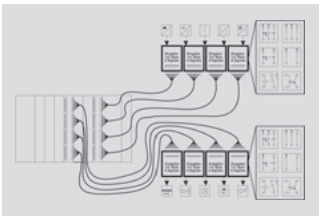
- **Safe**
  - Rules out the risk of wiring mistakes
  - Clear organization in the switchboard (system cable instead of individual wires)
  - Marking corresponds with PLC
  - Additional individual marking

- **Variable**
  - Multitude of about 40 different I/O components
  - Variable cable lengths
  - Modular design of all components
  - 1 x 4 byte and 4 x 1 byte system designs without signal routing module
  - Functions mixed by byte to an input or output level
  - Expansion possible without difficulty
  - Flexibility due to simple swapping of input/output interfaces

- **Small**
  - Saves space in cable ducts
  - Small module widths
  - No terminal levels

Use of PLC front adapters





PLC Siemens - S7-300

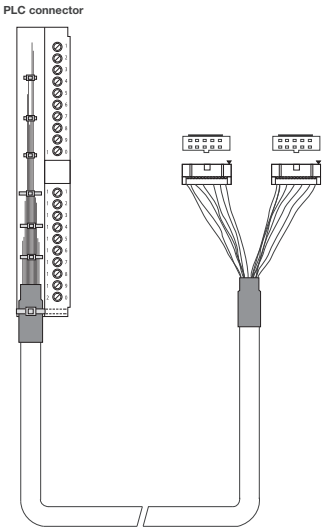
	PLC	Cables		Connection		Interfaces											
	I/O cards	Standard				Option 1			Option 2: adapter + relay or optocoupler as desired								
						Direct inputs or outputs			Adapter			Inputs or outputs with relay			Inputs or outputs with optocoupler		
	Manufacturer order numbers	Order No.	Qty	Screw	Tension c.	Order No.	Qty	Page	Order No.	Qty	Page	Order No.	Qty	Page	Order No.	Qty	Page
Digital input	6ES7 321-1BH01-0AA0	7789235xxx	1	V		8248050000	2	C.12	*8773510000*	2	C.23	8556060000	16	C.25	8607340000	16	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
	6ES7 321-1BH81-0AA0	7789235xxx	1	V		8248050000	2	C.12	*8773510000*	2	C.23	8556060000	16	C.25	8607340000	16	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
	6ES7 321-1BL00-0AA0	843331xxxx	1	V		8248050000	4	C.12	*8773510000*	4	C.23	8556060000	32	C.25	8607340000	32	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
	6ES7 321-1BL80-0AA0	843331xxxx	1	V		8248050000	4	C.12	*8773510000*	4	C.23	8556060000	32	C.25	8607340000	32	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
	6ES7 321-1BH50-0AA0	7789235xxx	1	V		8248050000	2	C.12	*8773510000*	2	C.23	8556060000	16	C.25	8607340000	16	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
	6ES7 321-7RD00-0AB0	7789235xxx	1	V		8248050000	2	C.12	*8773510000*	2	C.23	8556060000	16	C.25	8607340000	16	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
Digital output	6ES7 322-1BH01-0AA0	7789235xxx	1	V		8248050000	2	C.12	*8773600000*	2	C.23	8533640000*	16	C.25	8607350000	16	C.29
					Z	8428870000		C.11	*8773620000*			8533660000*			8607370000		
	6ES7 322-1BH81-0AA0	7789235xxx	1	V		8248050000	2	C.12	*8773600000*	2	C.23	8533640000*	16	C.25	8607350000	16	C.29
					Z	8428870000		C.11	*8773620000*			8533660000*			8607370000		
	6ES7 322-1BL00-0AA0	843331xxxx	1	V		8248050000	4	C.12	*8773600000*	4	C.23	8533640000*	32	C.25	8607350000	32	C.29
					Z	8428870000		C.11	*8773620000*			8533660000*			8607370000		

*** Note:** It is possible to replace these standard relay modules with the “ACT” version which provides a non-wired common.

- MRS 24Vdc ACT 8660920000 (screw connection) instead of 8533640000
- MRZ 24Vdc ACT 8660910000 (tension clamp connection) instead of 8533660000

Block of 8 MICROseries modules

Cable 843331xxxx



Cable 7789235xxx

PLC Siemens - S7-400

	PLC	Cables		Connection		Interfaces											
	I/O cards	Standard				Option 1			Option 2: adapter + relay or optocoupler as desired								
						Direct inputs or outputs			Adapter			Inputs or outputs with relay			Inputs or outputs with optocoupler		
	Manufacturer order numbers	Order No.	Qty	Screw	Tension c.	Order No.	Qty	Page	Order No.	Qty	Page	Order No.	Qty	Page	Order No.	Qty	Page
E	6ES7 421-1BL00-0AA0	833591xxxx	1	V		8248050000	4	C.12	*8773510000*	4	C.23	8556060000	32	C.25	8607340000	32	C.27
					Z	8428870000		C.11	*8773530000*			8556080000			8607360000		
S	6ES7 422-1BL00-0AA0	833591xxxx	1	V		8248050000	4	C.12	*8773600000*	4	C.23	8533640000*	32	C.25	8607350000	32	C.29
					Z	8428870000		C.11	*8773620000*			8533660000*			8607370000		
	6ES7 422-7BL00-0AB0	833591xxxx	1	V		8248050000	4	C.12	*8773600000*	4	C.23	8533640000*	32	C.25	8607350000	32	C.29
					Z	8428870000		C.11	*8773620000*			8533660000*			8607370000		

*** Note:** It is possible to replace these standard relay modules with the “ACT” version which provides a non-wired common.

- MRS 24Vdc ACT 8660920000 (screw connection) instead of 8533640000
- MRZ 24Vdc ACT 8660910000 (tension clamp connection) instead of 8533660000

Block of 8 MICROseries modules

Cable 833591xxxx

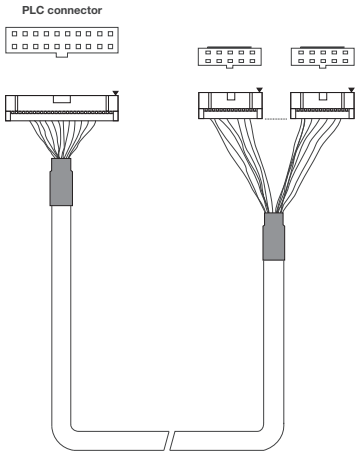
PLC Télémécanique - Premium/Micro

	PLC	Cables		Connection		Interfaces											
	I/O cards	Standard					Option 1			Option 2: adapter + relay or optocoupler as desired							
							Direct inputs or outputs			Adapter			Inputs or outputs with relay			Inputs or outputs with optocoupler		
	Manufacturer order numbers	Order No.	Qty	Screw	Tension c.	Type	Order No.	Qty	Page	Order No.	Qty	Page	Order No.	Qty	Page	Order No.	Qty	Page
Digital I/O	**TSX DMZ 64DTK**	7789303xxx	4	V	Z	Input	**8248050000** **8428870000**	4	C.12 C.11	***8773510000*** ***8773530000***	4	C.23	**8596060000** **8596080000**	32	C.25	**8607340000** **8607360000**	32	C.27
				V	Z	Output	**8248050000** **8428870000**	4	C.12 C.11	***8773600000*** ***8773620000***	4	C.23	**8533640000** **8533660000**	32	C.25	**8607350000** **8607370000**	32	C.27
Digital input	**TSX DEY 16FK**	7789303xxx	1	V	Z		**8248050000** **8428870000**	2	C.12 C.11	***8773510000*** ***8773530000***	2	C.23	**8596060000** **8596080000**	16	C.25	**8607340000** **8607360000**	16	C.27
	TSX DEY 32D2K	7789303xxx	2	V	Z		**8248050000** **8428870000**	4	C.12 C.11	***8773510000*** ***8773530000***	4	C.23	**8596060000** **8596080000**	32	C.25	**8607340000** **8607360000**	32	C.27
	TSX DEY 64D2K	7789303xxx	4	V	Z		**8248050000** **8428870000**	8	C.12 C.11	***8773510000*** ***8773530000***	8	C.23	**8596060000** **8596080000**	64	C.25	**8607340000** **8607360000**	64	C.27
Digital output	**TSX DSY 32T2K**	7789303xxx	2	V	Z		**8248050000** **8428870000**	4	C.12 C.11	***8773600000*** ***8773620000***	4	C.23	**8533640000*** **8533660000***	32	C.25	**8607350000** **8607370000**	32	C.29
	TSX DSY 64T2K	7789303xxx	4	V	Z		**8248050000** **8428870000**	8	C.12 C.11	***8773600000*** ***8773620000***	8	C.23	**8533640000*** **8533660000***	64	C.25	**8607350000** **8607370000**	64	C.29

*** Note:** It is possible to replace these standard relay modules with the "ACT" version which provides a non-wired common.

- MRS 24Vdc ACT 8660920000 (screw connection) instead of 8533640000
- MRZ 24Vdc ACT 8660910000 (tension clamp connection) instead of 8533660000

Block of 8 MICROseries modules



Cable 7789303xxx

SIEMENS SIM S7/300 and SIM S7/400

Front adapters SIM S7/300 and SIM S7/400 are contacted quickly and safely to the input and output modules of Siemens Simatic® S7-300 and S7-400 controllers.
Pre-assembled control leads with 10- or 40-pole socket connectors to IEC 603-1/DIN 41651 connect the PLC input/output groups to the passive and active interface units of the PLC system interface.
Electrical isolation of the power supply is accomplished by means of plug-in cross connection on PLC adapters and input/output modules with the following options:

- 1 x 32 signals
- 2 x 16 signals
- 4 x 8 signals

There are two options for the power feed to PLC I/O cards:

- Direct feed on the front adapter via screw terminals
- Feed via passive/active components by means of pre-assembled control wire (max. 1A/byte)

For the 32-bit PLC components, there is a choice of front adapters with four 10-pole < 4 x 1 byte structure or 40-pole control lead < 1 x 4 byte structure. This enables fast, cost-efficient installation and allows wiring mistakes to be minimized and commissioning times to be reduced.

Pole configuration

	SIM S7/300...KONV		SIM S7/400...KONV	
Front adapter	Socket 4 x 10 poles	1 x 40 poles	4 x 10 poles	1 x 40 poles
Pin 1	X 1.9 B0+	X 1.32 B0+		
Pin 2	X 1.1	X 1.40		
Pin 3	X 1.2	X 1.39	X 1.9 B0+	X 1.32 B0+
Pin 4	X 1.3	X 1.38	X 1.1	X 1.40
Pin 5	X 1.4	X 1.37	X 1.2	X 1.39
Pin 6	X 1.5	X 1.36	X 1.3	X 1.38
Pin 7	X 1.6	X 1.35	X 1.4	X 1.37
Pin 8	X 1.7	X 1.34	X 1.5	X 1.36
Pin 9	X 1.8	X 1.33	X 1.6	X 1.35
Pin 10	X 1.10 B0-	X 1.31 B0-	X 1.7	X 1.34
Pin 11	X 2.9 B1+	X 1.22 B1+	X 1.8	X 1.33
Pin 12	X 2.1	X 1.30		
Pin 13	X 2.2	X 1.29		
Pin 14	X 2.3	X 1.28	X 2.9 B1+	X 1.22 B1+
Pin 15	X 2.4	X 1.27	X 2.1	X 1.30
Pin 16	X 2.5	X 1.26	X 2.2	X 1.29
Pin 17	X 2.6	X 1.25	X 2.3	X 1.28
Pin 18	X 2.7	X 1.24	X 2.4	X 1.27
Pin 19	X 2.8	X 1.23	X 2.5	X 1.26
Pin 20	X 2.10 B1-	X 1.21 B1-	X 2.6	X 1.25
Pin 21	X 3.9 B2+	X 1.12 B2+	X 2.7	X 1.24
Pin 22	X 3.1	X 1.20	X 2.8	X 1.23
Pin 23	X 3.2	X 1.19		
Pin 24	X 3.3	X 1.18		
Pin 25	X 3.4	X 1.17		
Pin 26	X 3.5	X 1.16	X 3.9 B2+	X 1.12 B2+
Pin 27	X 3.6	X 1.15	X 3.1	X 1.20
Pin 28	X 3.7	X 1.14	X 3.2	X 1.19
Pin 29	X 3.8	X 1.13	X 3.3	X 1.18
Pin 30	X 3.10 B2-	X 1.11 B2-	X 3.4	X 1.17
Pin 31	X 4.9 B3+	X 1.2 B3+	X 3.5	X 1.16
Pin 32	X 4.1	X 1.10	X 3.6	X 1.15
Pin 33	X 4.2	X 1.9	X 3.7	X 1.14
Pin 34	X 4.3	X 1.8	X 3.8	X 1.13
Pin 35	X 4.4	X 1.7		
Pin 36	X 4.5	X 1.6		
Pin 37	X 4.6	X 1.5		
Pin 38	X 4.7	X 1.4	X 4.9 B3+	X 1.2 B3+
Pin 39	X 4.8	X 1.3	X 4.1	X 1.10
Pin 40	X 4.10 B3-	X 1.1 B3-	X 4.2	X 1.9
Pin 41			X 4.3	X 1.8
Pin 42			X 4.4	X 1.7
Pin 43			X 4.5	X 1.6
Pin 44			X 4.6	X 1.5
Pin 45			X 4.7	X 1.4
Pin 46			X 4.8	X 1.3
Pin 47				
Pin 48			X 1.10 B0-	X 1.11 B0-
Pin 48			X 2.10 B1-	X 1.21 B1-
Pin 48			X 3.10 B2-	X 1.31 B2-
Pin 48			X 4.10 B3-	X 1.1 B3-
Plug-in cross connectors				
	B0+/B1+		B0+/B1+	
	B1+/B2+		B1+/B2+	
	B2+/B3+		B2+/B3+	
	B0-/B1-			
	B1-/B2-			
	B2-/B3-			

PLC Front Adapter for SIEMENS S7

PLC front adapter for SIEMENS S7

- Pre-assembled control cable
- Control cable 1x40- or 4x10 pole in 4 standard lengths
- Separate feeding of the supply voltage via screw connection terminals
- Outstanding cross connectability using ZQV system
- Versatile accessories
- Inexpensive coupling of the interface modules

Front adapter for SIEMENS S7 300 E/A-modules

Digital input:

S7/300 6ES7 321-1BL00-0AA0, 32DI

Digital output :

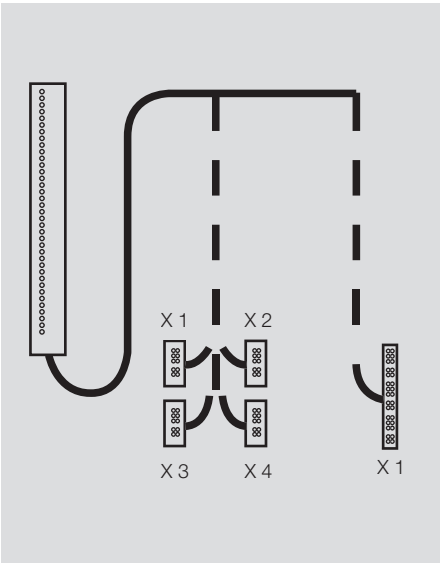
S7/300 6ES7 322-1BL00-0AA0, 32DO

Digital input/output:

S7/300 6ES7 323-1BL00-0AA0, 16DI/16DO

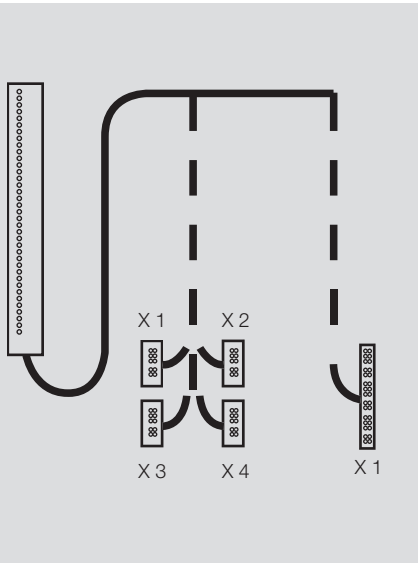
SIEMENS S7/300 1 x 4 Byte

Simatic S7/300 1x4 Byte



SIEMENS S7/300 4 x 1 Byte

Simatic S7/300 4x1Byte



Technical data

Connection data			
Connection on process side		SIEMENS front panel housing	SIEMENS front panel housing
Type of connection		1x40-pole pre-assembled cable with IEC603/1 plug-in connector	4 x 10-pole pre-assembled cable with IEC603/1 plug-in connector
Design		1x40-pole pre-assembled cable with female connector	4x10-pole pre-assembled cable with 10-pole female connector
Configuration of single conductor		7-core control line AWG 26/7	7-core control line AWG 26/7
Connection system, supply voltage/other connections		PCB screw connection terminals	PCB screw connection terminals
Rated data			
Number of signals		32 / 1x4 byte	32 / 4x1 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Current-carrying capacity/ cable 10-pole/Line, 40-pole		/26 A/ dT = 20 K	11.5 A/ dT = 20 K /
Voltage supply/Byte discon.		yes	yes
Total current feed, max.		16 A	16 A
Dimensions			
Clamping range (rating- / min. / max.)	mm^2		
Length x width x height	mm	115 x 22 x 32	115 x 22 x 32
Note			

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
2 m control line	SIM S7/300 FB40 2.0M	1	**8433290200**	SIM S7/300 FB4*10 2.0M	1	**8433310200**
2.5 m control line	SIM S7/300 FB40 2.5M	1	**8433290250**	SIM S7/300 FB4*10 2.5M	1	**8433310250**
3 m control line	SIM S7/300 FB40 3.0M	1	**8433290300**	SIM S7/300 FB4*10 3.0M	1	**8433310300**
5 m control line	SIM S7/300 FB40 5.0M	1	**8433290500**	SIM S7/300 FB4*10 5.0M	1	**8433310500**
Note						

PLC front adapter for SIEMENS S7

- Pre-assembled control cable
- 1x40-pole or 4x10-pole cables in 4 standard lengths
- Separate feeding of supply voltage via screw connection terminals
- Outstanding cross connectability using ZQV system
- Versatile system accessories
- Inexpensive coupling of interface modules

Front adapter for SIEMENS S7 400 I/O modules

Digital input:

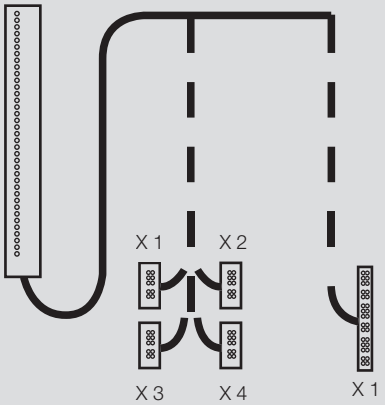
S7/400 6ES7 421-1BL00-0AA0, 32DI

Digital output:

S7/400 6ES7 422-1BL00-0AA0, 32DO

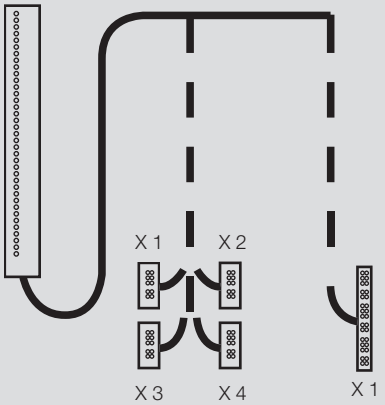
SIEMENS S7/400 1x 4 Byte

Simatic S7/400 1x4Byte



SIEMENS S7/400 4 x 1 Byte

Simatic S7/400 4x1Byte



Technical data

Connection data			
Connection on process side		SIEMENS front panel housing	SIEMENS front panel housing
Type of connection		1x40-pole pre-assembled cable with IEC603/1 plug-in connector	4 x 10-pole pre-assembled cable with IEC603/1 plug-in connector
Design		1x40-pole pre-assembled cable with female connector	4x10-pole pre-assembled cable with 10-pole female connector
Configuration of single conductor		7-core control line AWG 26/7	7-core control line AWG 26/7
Connection system, supply voltage/other connections		PCB screw connection terminals	PCB screw connection terminals
Rated data			
Number of signals		32 / 1x4 byte	32 / 4x1 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Current-carrying capacity/ cable 10-pole/Line, 40-pole		/26 A/ dT = 20 K	11.5 A/ dT = 20 K /
Voltage supply/Byte discon.		yes	yes
Total current feed, max.		16 A	16 A
Dimensions			
Clamping range (rating- / min. / max.)	mm^2		
Length x width x height	mm	274 x 19 x 55	274 x 19 x 55
Note			

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
2 m control line	SIM S7/400 FB40 2.0M	1	**8335900200**	SIM S7/400 FB4*10 2.0M	1	**8335910200**
2.5 m control line	SIM S7/400 FB40 2.5M	1	**8335900250**	SIM S7/400 FB4*10 2.5M	1	**8335910250**
3 m control line	SIM S7/400 FB40 3.0M	1	**8335900300**	SIM S7/400 FB4*10 3.0M	1	**8335910300**
5 m control line	SIM S7/400 FB40 5.0M	1	**8335900500**	SIM S7/400 FB4*10 5.0M	1	**8335910500**
Note						

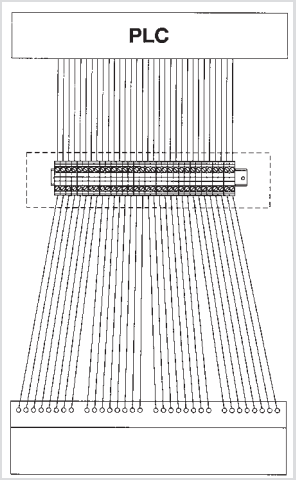
Passive components

The RSF40 or RS F10 passive interface units for 32 or 8 signals allow for efficient connection of peripheral initiators, sensors and actuators to PLC input/output modules. The link between the PLC and the interface module consists of the controller-specific front adapter and the pre-assembled control lead. This wiring version replaces point-to-point wiring, which is prone to mistakes and is costly to install. The necessary auxiliary voltage is provided at the connection units.
An optional status indicator (LED) shows the switching state and the operating voltages.

Features

- Choice of screw or tension clamp terminal
- RS45 modules with extremely narrow width of 45 mm
- 32x module via plug-in jumpers in sensor groups (1 x 32, 2 x 16 or 4 x 8 signals)
- Signals grouped by byte
- Test point on the board through connection element
- Clearly organized terminal marking
- Additional labelling panel for group identification
- Clips to TS35 DIN rail (RS 45 profile) in 45 mm width and TS 32/35 DIN rail in 87 mm width

Individual wiring



Input/output module RS 45 profile designed for

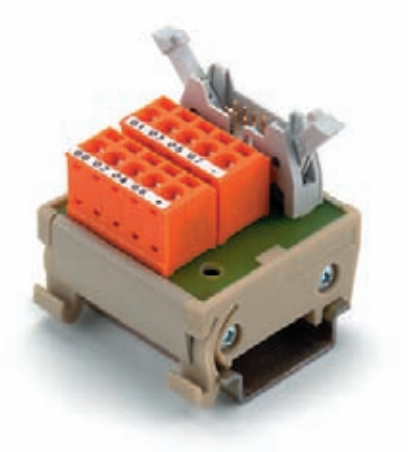
- 1:1 signal transfer of 32 or 8 signals to PLC input/output modules,
- connection of RS F40 LPK2 and RS F10 LPK2 two-wire and three-wire sensors/initiators to PLC input/output modules.

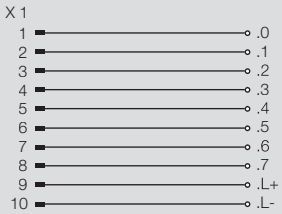
Input/Output in single-conductor system

- Compact design
- Tension clamp connection system
- Clear connection type
- Clips to TS 35

RS F10 I/O8 LMZF

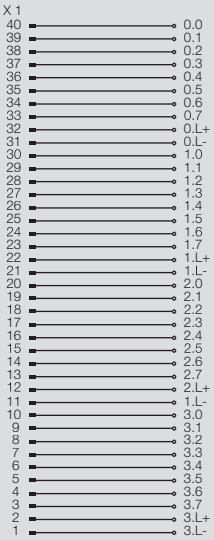
I/O module





RS F40 I/O32 LMZF

I/O module



Technical data

Connection data			
Connection on process side		PCB terminal LMZF	PCB terminal LMZF
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Tension clamp connection terminal	Tension clamp connection terminal
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1	
Coupling on control side, 32- way module			40-pole FB-socket IEC 603-1
Rated data			
Number of signals		8 / 1x1 byte	32 / 1x4 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Common potential at terminal/Voltage supply/Byte discon.		/	/no
Ambient temperature (operational)/Storage temperature		0 °C…+55 °C /-40 °C…+70 °C	0 °C…+55 °C /-40 °C…+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 35	TS 35
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	45 x 43 x 54	45 x 125 x 54
Note			

Ordering data

Type	Qty.	Order No.
RS F10 I/O8 LMZF	1	**8428870000**

Type	Qty.	Order No.
RS F40 I/O32 LMZF	1	**8428880000**

Note

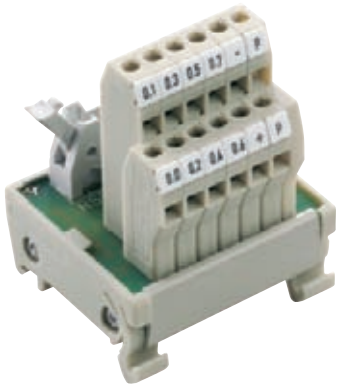
PLC Input / Output Module Passive

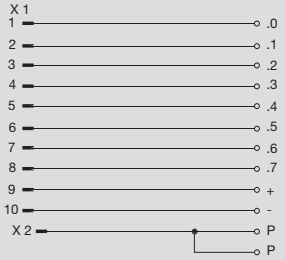
Input/Output in single-conductor system

- Compact design
- Screw connection system
- Clear connection type
- Clips to TS 35

RS F10 LPK 2H/12

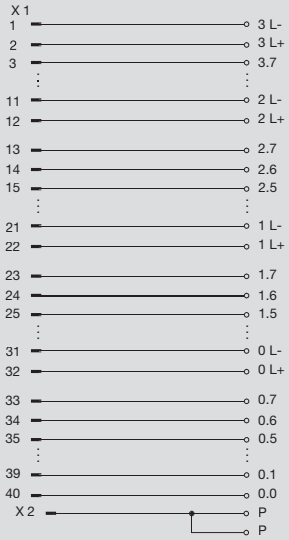
I/O module





RS F40 LPK 2H/42

I/O module



Technical data

Connection data			
Connection on process side		PCB terminal LPK 2 H	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Screw connection	Screw connection
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1	
Coupling on control side, 32- way module			40-pole FB-socket IEC 603-1
Rated data			
Number of signals		8 / 1x1 byte	32 / 1x4 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Common potential at terminal/Voltage supply/Byte discon.		/-	/no
Ambient temperature (operational)/Storage temperature		0 °C...+55 °C /-40 °C...+70 °C	0 °C...+55 °C /-40 °C...+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 35	TS 35
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	45 x 49 x 65.5	45 x 121 x 65.5
Note			

Ordering data

Type	Qty.	Order No.
RS F10 LPK 2H/12	1	8248050000

Type	Qty.	Order No.
RS F40 LPK 2H/42	1	8248060000

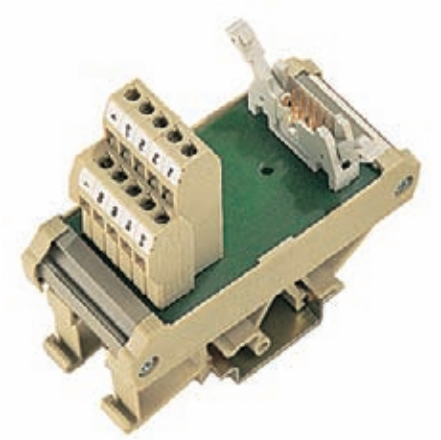
Note

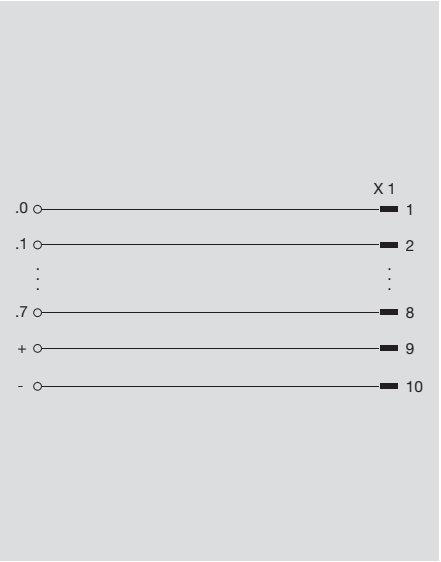
Input/Output in single-conductor system

- Screw connection system
- Clear connection type
- Optional status indicator
- Additional labelling panel for group type
- Clips to TS 32/35

RS F10 I/O8 LPK2

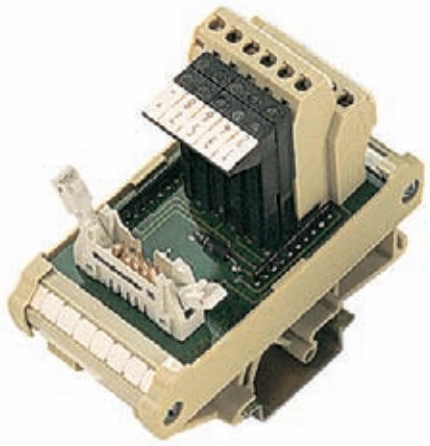
I/O module

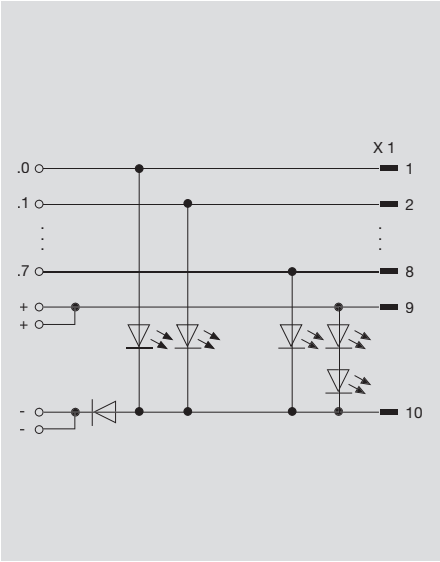




RS F10 I/O8 LD LPK2

I/O module





Technical data

Connection data			
Connection on process side		PCB terminal LPK 2 H	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Screw connection	Screw connection
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1	10-pole FB-socket IEC 603-1
Rated data			
Number of signals		8 / 1x1 byte	8 / 1x1 byte
Rated voltage		60 V AC/ 75 V DC	24 V DC ±20 %
Rated current per connection		1 A	1 A
LED current			< 5 mA
Ambient temperature (operational)/Storage temperature		0 °C…+55 °C /-40 °C…+70 °C	0 °C…+55 °C /-40 °C…+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 32, TS 35	TS 32, TS 35
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87 x 40 x 80	87 x 40 x 80
Note			

Ordering data

Type	Qty.	Order No.
RS F10 I/O8 LPK2	1	**8224290000**

Type	Qty.	Order No.
RS F10 I/O8 LD LPK2	1	**8224260000**

Note

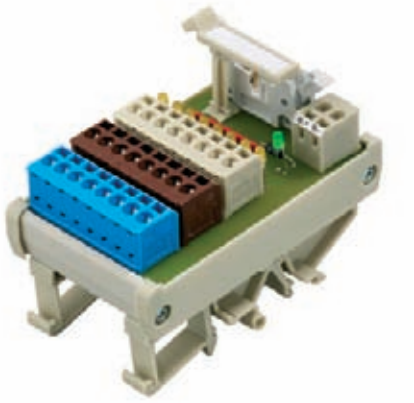
PLC Input/Output Module Passive

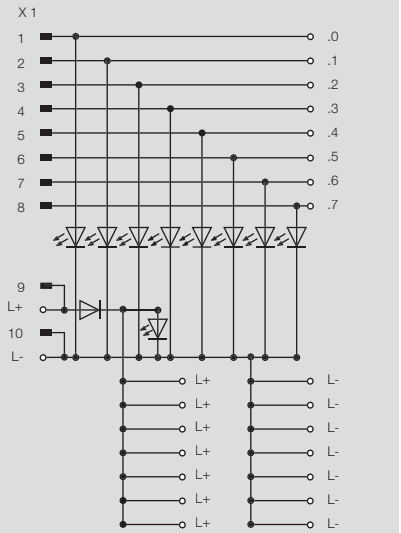
Input module in 3-conductor system

- Tension clamp connection system
- Connection of 3-wire initiators
- Optional status indicator
- Additional labelling panel for group type
- Clips to TS 32/35

RS F10 INIT8 LD LMZF

Input module





Technical data

Connection data		
Connection on process side		PCB terminal LMZF
Stripping length		7.0 mm
Connection system, supply voltage/other connections		Tension clamp connection terminal
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1
Rated data		
Number of signals		8 / 1x1 byte
Rated voltage		24 V DC ±20 %
Rated current per connection		1 A
LED current		< 5 mA
Common potential at terminal/Voltage supply/Byte discon.		+/- potential /-
Ambient temperature (operational)/Storage temperature		0 °C...+55 °C /-40 °C...+70 °C
Surge category/Pollution severity		II /2
Terminal rail		TS 32, TS 35
Dimensions		
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5
Length x width x height	mm	87 x 54 x 73
Note		

Ordering data

Type	Qty.	Order No.
RS F10 INIT8 LD LMZF	1	**8428890000**

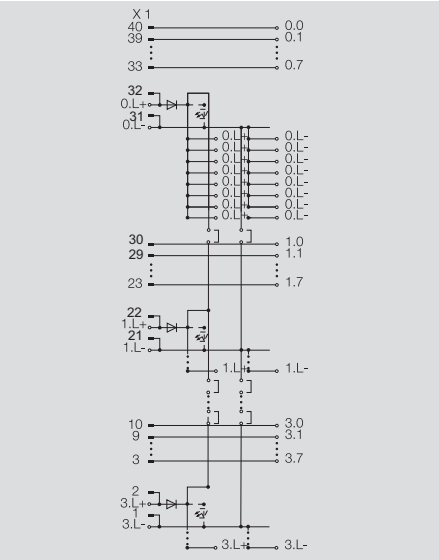
Note

Input module in 3-conductor system

- Tension clamp connection system
- Connection of 3-wire initiators
- Wire jumpers on the 32-way modules enable group-type splitting of the initiators into 1x32, 2x16 or 4x8 signals
- Clear byte-by-byte grouping of signals
- Optional status indicator
- Additional labelling panel for group type
- Clips to TS 32/35

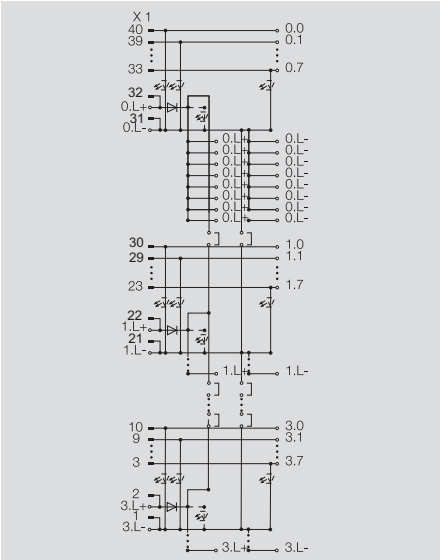
RS F40 INIT32 LMZF

Input module



RS F40 INIT32 LD LMZF

Input module



Technical data

Connection data			
Connection on process side		PCB terminal LMZF	PCB terminal LMZF
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Tension clamp connection terminal	Tension clamp connection terminal
Coupling on control side, 32- way module		40-pole FB-socket IEC 603-1	40-pole FB-socket IEC 603-1
Rated data			
Number of signals		32 / 1x4 byte	32 / 1x4 byte
Rated voltage		60 V AC/ 75 V DC	24 V DC ±20 %
Rated current per connection		1 A	1 A
LED current			< 5 mA
Common potential at terminal/Voltage supply/Byte discon.		+/- potential /yes	+/- potential /yes
Ambient temperature (operational)/Storage temperature		0 °C…+55 °C /-40 °C…+70 °C	0 °C…+55 °C /-40 °C…+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 32, TS 35	TS 32, TS 35
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87 x 185 x 73	87 x 185 x 73
Note			

Ordering data

Type	Qty.	Order No.
RS F40 INIT32 LMZF	1	**8430980000**

Type	Qty.	Order No.
RS F40 INIT32 LD LMZF	1	**8428900000**

Note

Active components

Relay output modules allow transmission of electric signals between PLC controller and the actuator level. A signal isolator guarantees transmission free of reference potential and decoupling of the electric signals.

Relay output modules for controlling actuators free from reference potential from a PLC.

- RS F40 16 RS for output of 16 signals (with expansion module max. 32 signals),
- RS F40 LMZF 32 RS for output of 32 signals,
- RS F10 8RS for output of 8 signals.

The advantages of active interface components:

- low-disturbance and noise-free signal transmission
- power gain
- compact design
- cost- and time-saving wiring with pre-assembled lines
- screw or tension spring connections as required
- inexpensive adaptation via pre-assembled control lines to the PLC
- electrical isolation of input and output circuits
- expansion board for upgrading a 16-way module to a 32-way module
- plug-in relay
- integral switching status indicator
- labelling panel for group type
- can be clipped to TS 32/35

Relays

- Screw connection system
- Base and expansion modules each equipped with 16 relays
- Plug-in relays with changeover contact
- Expansion module connected via 20-pole ribbon cable
- Electrical isolation of input and output circuits
- LED status indicator
- For mounting on TS 32/35

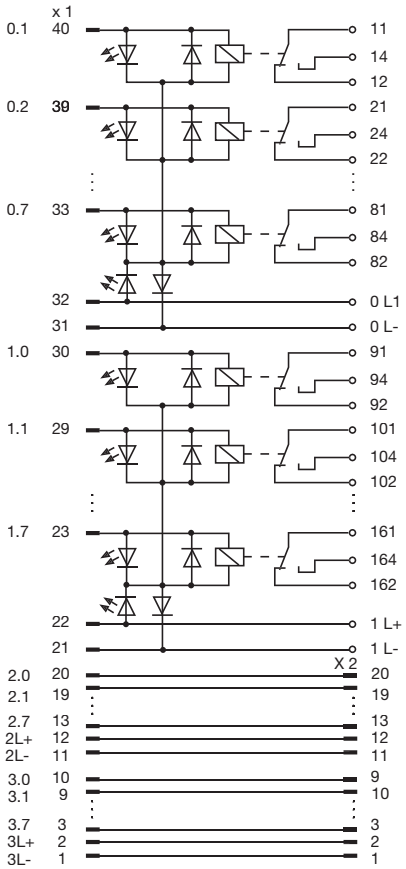
RS F40 16RS OUT

Output module

Technical data

Connection data	
Number of signals	16 / 1x2 byte
Connection on process side	Screw connection
Type of connection	40-pole pin connector IEC 603/1
Connection system, supply voltage/other connections	Screw connection/ IEC 603-1 20-pole
Stripping length	7.00 mm
Input	
Rated voltage	24 V DC ±10%
DC Response/drop-out Volt	> 16 V / < 4 V
Rated current DC	30 mA
Pick-up/drop-out current, DC coil	23 mA / 2 mA
Power rating	0.75 W
Status indicator LED / current consumption	yellow /3.00 mA
Response time / Drop-out time	< 8 ms/ < 7 ms
max. switching frequency at rated load	10.0 Hz
Output	
max. switching voltage AC/max. DC	250 V/250 V
Continuous current/Making current/min. switching current	6 A/8 A /100 mA
max. switching power	2000 VA / 200 W
Type of relay/Relay mounting	RCL314024 /pluggable
Type of contact/Contact base material	CO contact /AgNi 90/10
Insulation coordination (EN 50178)	
Ambient temperature (operational)	0 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Rated voltage	300 V
Dielectric strength, Input/Output	4 kV_{eff}
Surge category	II
Pollution severity	2
DIN Rail compatibility	TS 32, TS 35
Standards/Approvals	EN 50178 /CE

Dimensions		
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4
Length x width x height	mm	87 x 350 x 76
Note		



Ordering data

Type	Qty.	Order No.
Basic module		
RS F40 16RS OUT 24VDC	1	**8224181001**
Expansion module		
RS F40 16RS OUT 24VDC E	1	**8224191001**

Note

Accessories

Note

Spare relay RCL314024 8693260000

PLC Input/Output Module Active

Relays

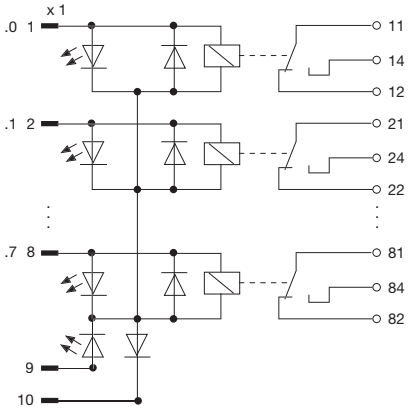
- Screw connection system
- Compact design
- Electrical isolation of input and output circuits
- Relay soldered with changeover contact
- LED status indicator
- Clips to TS 35

RS F10 8R OUT 24VDC

Output module

Technical data

Connection data	
Type	IEC603-1 10-pole/ screw connection
Number of signals	8 / 1x1 byte
Connection on process side	Screw connection
Type of connection	10-pole pin connector IEC 603/1
Connection system, supply voltage/other connections	Screw connection LM 3.5
Stripping length	5.00 mm
Input	
Rated voltage	24 V DC ±10%
DC Response/drop-out Volt	> 18 V/ < 4 V
Rated current DC	20 mA
Pick-up/drop-out current, DC coil	20 mA/ 2mA
Power rating	0.5 W
Status indicator LED / current consumption	yellow /5.00 mA
Response time / Drop-out time	< 8 ms/ < 4 ms
Output	
max. switching voltage AC/max. DC	250 V/120 V
Continuous current/Making current/min. switching current	3 A/5 A /100 mA
max. switching power	1250 VA / 80 W
Type of relay/Relay mounting	DOLD OW5691 /soldered
Type of contact/Contact base material	CO contact /AgNi
Insulation coordination (EN 50178)	
Ambient temperature (operational)	0 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Rated voltage	250 V
Dielectric strength, Input/Output	4 kV_{eff}
Surge category	II
Pollution severity	2
DIN Rail compatibility	TS 32, TS 35
Standards/Approvals	EN 50178 /CE



Dimensions		
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 1.5
Length x width x height	mm	45 x 93 x 51
Note		

Ordering data

	Type	Qty.	Order No.
IEC603-1 10-pole/ screw connection	RS F10 8R OUT 24VDC	1	**8329800000**

Note

Accessories

Note

Relays

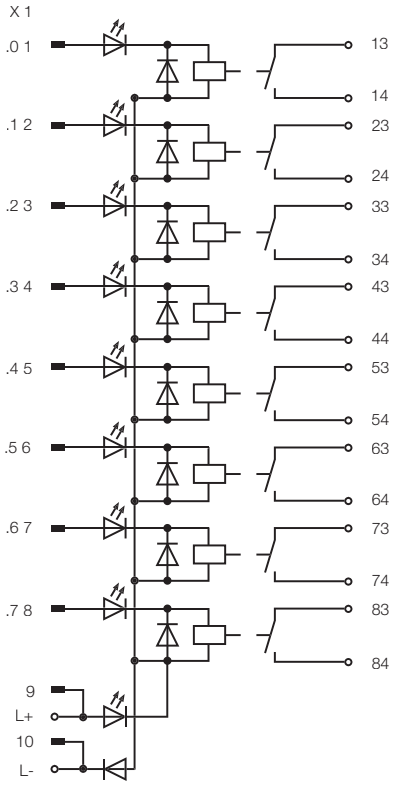
- Tension clamp connection system
- Compact design
- Electrical isolation of input and output circuits
- 8 plug-in relays
- NO contact design
- LED status indicator
- Additional labelling panel for group type
- Clips to TS 32/35

RS F10 8RS OUT LMZF

Output module

Technical data

Connection data	
Type	IEC603-1 10-pole/ tension clamp connection
Number of signals	8 / 1x1 byte
Connection on process side	PCB terminal LMZF
Type of connection	10-pole pin connector IEC 603/1
Connection system, supply voltage/other connections	Tension clamp connection
Stripping length	7.00 mm
Input	
Rated voltage	24 V DC ±10%
DC Response/drop-out Volt	> 19 V/ < 7 V
Rated current DC	30 mA
Pick-up/drop-out current, DC coil	20 mA/ 2mA
Power rating	0.5 W
Status indicator LED / current consumption	yellow /3.00 mA
Response time / Drop-out time	< 5 ms /< 15 ms
Output	
max. switching voltage AC/max. DC	250 V/125 V
Continuous current/Making current/min. switching current	3 A/5 A /10 mA
max. switching power	1250 VA / 600 W
Type of relay/Relay mounting	FUJITSU NYP-24WK /pluggable
Type of contact/Contact base material	NO contact /AgNi 5µm Au
Insulation coordination (EN 50178)	
Ambient temperature (operational)	0 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Rated voltage	300 V
Dielectric strength, Input/Output	2.5 kV
Surge category	II
Pollution severity	2
DIN Rail compatibility	TS 32, TS 35
Standards/Approvals	EN 50178 /CE



Dimensions		
Clamping range (rating- / min. / max.)	mm²	1.5 / 0.5 / 2.5
Length x width x height	mm	87 x 78 x 73
Note		

Ordering data

	Type	Qty.	Order No.
IEC603-1 10-pole/ tension clamp connection	RS F10 8RS OUT LMZF	1	**8430990000**

Note

Accessories

Note	Spare relay NYP-24 WK 4052510000

PLC Input/Output Module Active

Relays

- Tension clamp connection system
- Compact design
- Electrical isolation of input and output circuits
- 32 plug-in relays
- NO contact design
- LED status indicator
- Additional labelling panel for group type
- Clips to TS 32/35

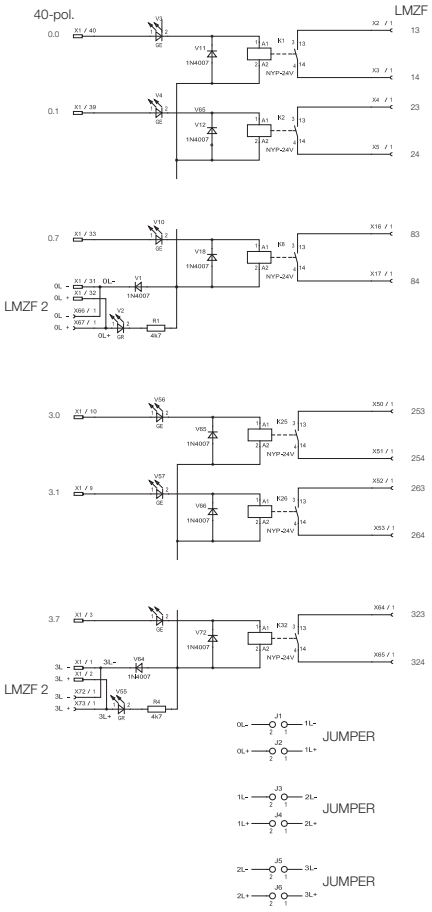
RS F40 32RS OUT LMZF

Output module

Technical data

Connection data	
Type	IEC603-1 40-pole/ tension clamp connection
Number of signals	32 / 1x4 byte
Connection on process side	PCB terminal LMZF
Type of connection	40-pole pin connector IEC 603/1
Connection system, supply voltage/other connections	Tension clamp connection
Stripping length	7.00 mm
Input	
Rated voltage	24 V DC ±10%
DC Response/drop-out Volt	> 19 V/ < 7 V
Rated current DC	30 mA
Pick-up/drop-out current, DC coil	20 mA/ 2mA
Power rating	0.5 W
Status indicator LED / current consumption	yellow /3.00 mA
Response time / Drop-out time	< 5 ms /< 15 ms
Output	
max. switching voltage AC/max. DC	250 V/125 V
Continuous current/Making current/min. switching current	3 A/5 A /10 mA
max. switching power	1250 VA / 600 W
Type of relay/Relay mounting	FUJITSU NYP-24WK /pluggable
Type of contact/Contact base material	NO contact /AgNi 5µm Au
Insulation coordination (EN 50178)	
Ambient temperature (operational)	0 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Rated voltage	300 V
Dielectric strength, Input/Output	2.5 kV
Surge category	II
Pollution severity	2
DIN Rail compatibility	TS 32, TS 35
Standards/Approvals	EN 50178 /CE

Dimensions		
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5
Length x width x height	mm	87 x 263 x 73
Note		



Ordering data

	Type	Qty.	Order No.
IEC603-1 40-pole/ tension clamp connection	RS F40 32RS OUT LMZF	1	**8431000000**

Note

Accessories

Note	Spare relay NYP-24 WK 4052510000

MICROinterface Digital

Link field and control with a system instead of masses of wires.

MICROinterface Digital is the answer to connecting eight MICROSERIES couplers to a PLC I/O module via pre-assembled lines. It results in simple, error-free connections between field and control.

First, set up a block of eight couplers using Weidmuller's well-known relays or optos from the MICROSERIES range (available with screw or tension clamp connections). Plug the interface module into the corresponding cross-connection openings using a ribbon cable or SUB-D connection. Using the pre-assembled cables available in various lengths, simply connect to the main PLC.

Features

- No tools required for installation
- Compatible with MICROSERIES screw and tension clamp connections
- Electrical isolation and signal adaptation with relays or optos as required

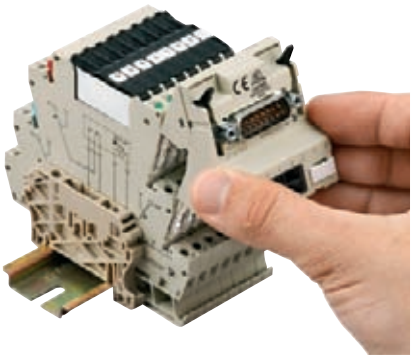
MICROinterface module for ribbon cable connection

MICROinterface module for SUB-D connection

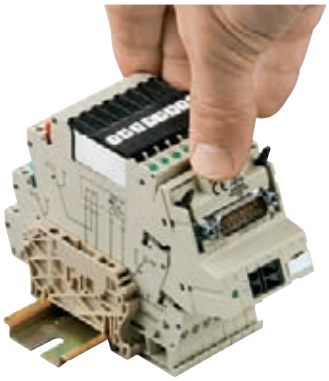
Adapter and Solution for MICROSERIES Relays and Optocouplers

Instructions for assembling the adapter

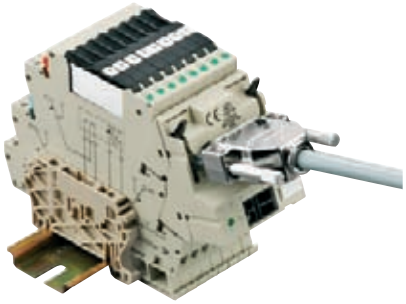
Assemble a block of 8 MICROseries on the rail and adjust the stops



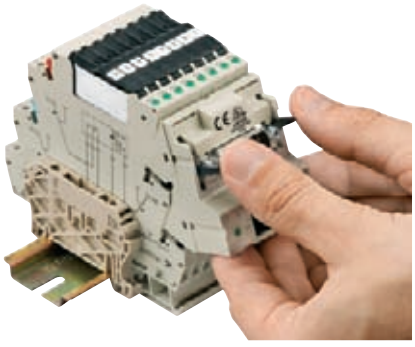
Insert the adapter in the transverse connection channel and ensure it is correctly positioned



Push down on the center of the adapter from above



Connect the prefabricated cable fitted with an HE10 or D-SUB connector

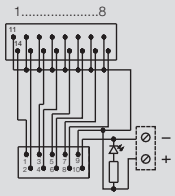


To remove the cable, move the two retaining clips apart

MICROinterface digital

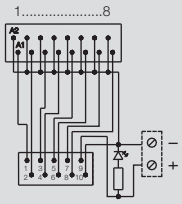
MI8DI-S/Z

Input module



MI8DO-S/Z

Output module



Technical data

Connection data			
Type		Input module	Output module
Type of terminal / Connection system		MICROSERIES;Screw or tension clamp connection;Available for ribbon cable or Sub-D connection	MICROSERIES;Screw or tension clamp connection;Available for ribbon cable or Sub-D connection
Rated data			
Operating voltage, max.		30 V AC/DC	30 V AC/DC
Current-carrying capacity		0.5 A per channel	0.5 A per channel
Total current feed, max.		2 A	2 A
Impulse withstand voltage (1.2/50 µs)		330 V	330 V
Rated insulation voltage		32 V	32 V
Storage temperature		-20 °C…+85 °C	-20 °C…+85 °C
Ambient temperature (operational)		0 °C…+55 °C	0 °C…+55 °C
Insulation coordination (EN 50 178)			
Surge category		I	I
Pollution severity		2	2
Clearances/Creepage distances to EN		0.1 mm	0.1 mm
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 2.5	2.5 / 0.5 / 2.5
Length x width x height	mm	48 x 59 x 53	48 x 59 x 53
Note		Wiring diagram for ribbon cable	Wiring diagram for SUB-D

Ordering data

Connection system, pre-assembled cable	Type	Qty	Order No.	Type	Qty	Order No.
Ribbon cable connector, 10-pole	MI8DI-S F10 S	1	**8773510000**	MI8DO-S F10 S	1	**8773600000**
SUB-D plug, 15-pole	MI8DI-S SUB D15S	1	**8773460000**	MI8DO-S SUB D15S	1	**8773550000**
Ribbon cable connector, 10-pole	MI8DI-Z F10 S	1	**8773530000**	MI8DO-Z F10 S	1	**8773620000**
SUB-D plug, 15-pole	MI8DI-Z SUB D15S	1	**8773490000**	MI8DO-Z SUB D15S	1	**8773570000**
Note	MI8DI-S = Screw connection MI8DI-Z = Tension clamp connection			MI8DI-S = Screw connection MI8DI-Z = Tension clamp connection		

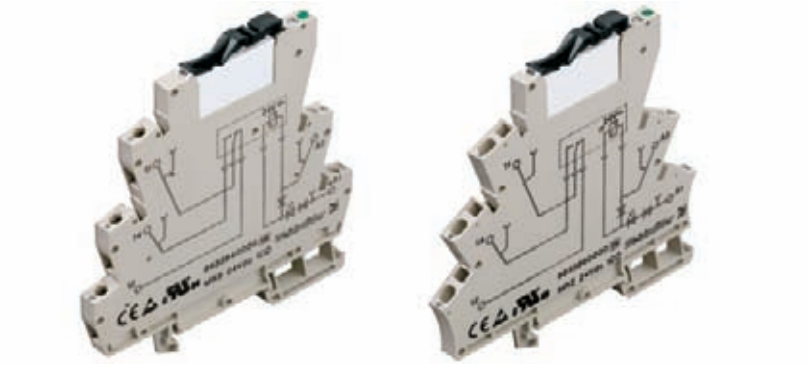
Accessories

Note		
	10-pole ribbon cable (see pg. C.33 for additional options)	**8235360000**
	15-pole female D-Sub cable (see pg. C.31)	**7789250xxx**
	10-pole ribbon cable (see pg. C.33 for additional options)	**8235360000**
	15-pole female D-Sub cable (see pg. C.31)	**7789250xxx**

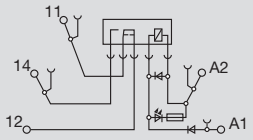
1 change-over contact AC/DC/UC coil

Modulee can be used as an universal interface between the controller and the actuator to switch small and medium-sized loads.

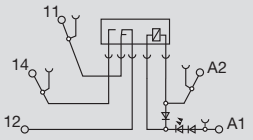
- Relay module interchangeable, also for an opto module
- 6.1 mm wide
- Pluggable cross-connection at input and output minimizes the wiring workload.



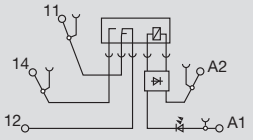
(5/12 V DC)



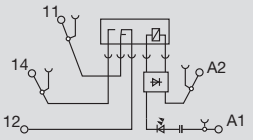
(24/60 V DC)



(24/48/120 V UC)



(230 V AC)

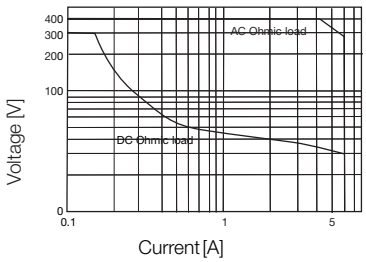


Output	
max. switching voltage AC1/Continuous current	250 V/6 A
min. switching power	12 V / 100 mA
Response time / Drop-out time	6.2ms/3.9ms
Contact base material	AgSnO
Mechanical endurance	$20*10^6$ switching cycles
max. switching frequency at rated load	0.1 Hz
Rated data	
Status indicator/Free wheel diode	green LED/Yes
Reverse pol. prot	available
Ambient temperature (operational)	-25 °C…+50 °C
Storage temperature	-40 °C…+60 °C
Humidity	40°C/93% RH, no condensation
Approvals	CE; cULus;
Insulation coordination (EN 50178)	
Standards	EN 50178
Rated voltage	300 V
Impulse withstand voltage	4 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2
Protective separation to VDE 0106 part 101	Yes

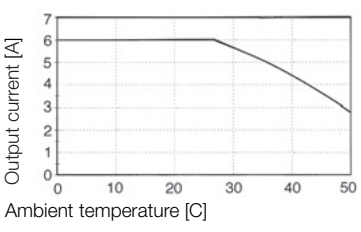
Dimensions		Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm	93 / 6.1 / 92	94 / 6.1 / 91
Note		Cross-connectors and markers - refer to MICROSERIES accessories	

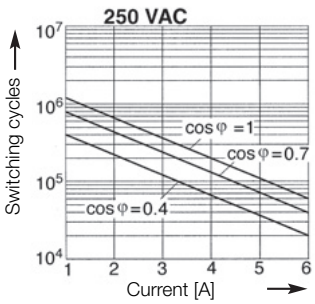
Applications

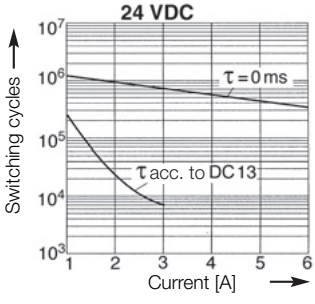
Limit curve



Current–Temperature rise curve







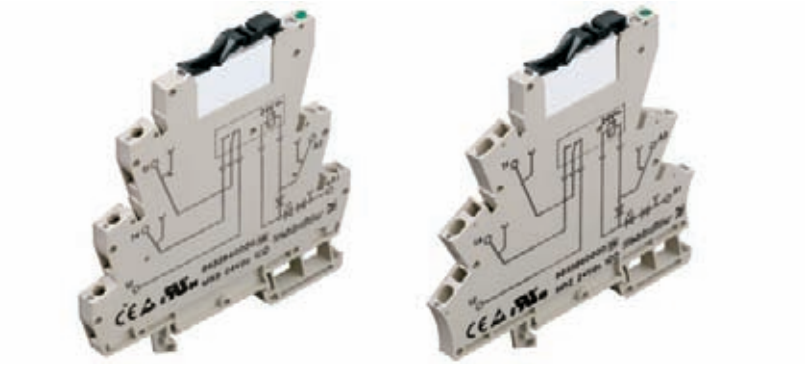
1 change-over contact
AC/DC/UC coil

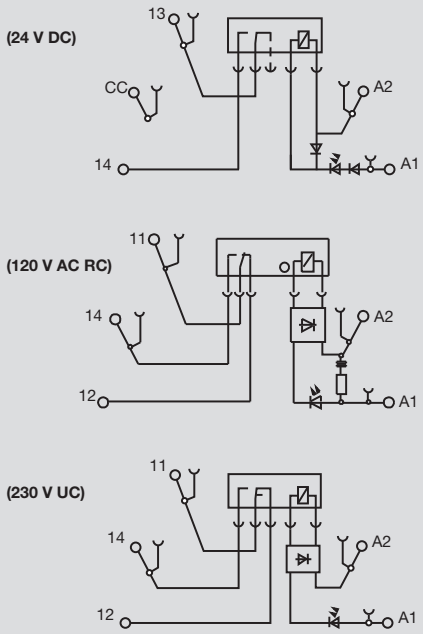
Ordering data	5 V DC 1CO	12 VDC 1CO	24 V DC 1CO	24 V UC 1CO
Input				
Rated voltage	5 V DC ±20%	12 V DC ±20%	24 V DC ±20 %	24 V UC ±10 %
Rated current AC				11 mA
Rated current DC	38.5 mA	17 mA	6.6mA	6.4 mA
Power rating	193 mW	210 mW	160 mW	154 mW
AC Response/dropout Volt				15.8V/7V
DC Response/dropout Volt	3.2V/1.6V	6.4V/ 2.5V	15.4V/6.5V	15.8V/7V
AC pickup/dropout current				3.6mA/1.3mA
DC pickup/dropout current	21.6mA/8mA	8.4mA/2.4mA	4mA/1.2mA	3.6mA/1.3mA
Ordering data Relay with socket				
Screw connection Type	MRS 5Vdc 1CO	MRS 12Vdc 1CO	MRS 24Vdc 1CO	MRS 24Vuc 1CO
Order No.	**8556080000**	**8556070000**	**8533640000**	**8556050000**
Tension spring connection Type	MRZ 5Vdc 1CO	MRZ 12Vdc 1CO	MRZ 24VDC 1CO	MRZ 24Vuc 1CO
Order No.	**8556150000**	**8556140000**	**8533660000**	**8556120000**
Ordering data Spare relay (pluggable)				
Type	RSS113005 05Vdc-Rel1U	RSS113012 12Vdc-Rel1U	RSS113024 24Vdc-Rel1U	RSS113024 24Vdc-Rel1U
Order No.	**4061580000**	**4061610000**	**4060120000**	**4060120000**
Note				

Ordering data	48 V UC 1CO	60 V DC 1CO	120 V UC 1CO	230 V AC 1CO
Input				
Rated voltage	48 V UC ±10 %	5 V DC ±20%	120 V UC + 10 %/ -15 %	230 V AC ±10%
Rated current AC	5 mA		3.5 mA	7.6 mA
Rated current DC	4 mA	3.3 mA	3.5 mA	
Power rating	190 mW	200 mW	0.42 VA	1.75 VA
AC Response/dropout Volt	29V/11V		71V/22V	103V/49V
DC Response/dropout Volt	29V/11V	35V/11V	71V/22V	
AC pickup/dropout current	2.2mA/1.3mA		1.8mA/0.5mA	5mA/2.5mA
DC pickup/dropout current	2.2mA/1.3mA	1.6mA/0.6mA	1.8mA/0.5mA	
Ordering data Relay with socket				
Screw connection Type	MRS 48Vuc 1CO	MRS 60Vdc 1CO	MRS 120Vuc 1CO	MRS 230Vac 1CO
Order No.	**8556040000**	**8556060000**	**8556030000**	**8556020000**
Tension spring connection Type	MRZ 48Vuc 1CO	MRZ 60Vdc 1CO	MRZ 120Vuc 1CO	MRZ 230Vac 1CO
Order No.	**8556110000**	**8556130000**	**8556100000**	**8556090000**
Ordering data Spare relay (pluggable)				
Type	RSS113048 48Vdc-Rel1U	RSS113060 60Vdc-Rel1U	RSS113060 60Vdc-Rel1U	RSS113024 24Vdc-Rel1U
Order No.	**4061620000**	**4061630000**	**4061630000**	**4060120000**
Note				

1 NO contact special versions

- 24 VDC actuator version:
  Bridgeable, potential-free connection for direct connection of actuators at the output
- 120 VAC RC version:
  RC circuit at the input guarantees safe switching thresholds, e.g. for leakage currents on the control side
- 230 V UC version:
  Can also be interconnected at input with DC signals





Output	
max. switching voltage AC1/Continuous current	250 V/6 A
min. switching power	12 V / 100 mA
Response time / Drop-out time	6.6 ms/5.8 ms
Contact base material	AgSnO
Mechanical endurance	$20*10^6$ switching cycles
max. switching frequency at rated load	0.1 Hz
Rated data	
Status indicator/Free wheel diode	green LED/Yes
Reverse pol. prot	available
Ambient temperature (operational)	-25 °C…+ 55 °C
Storage temperature	-40 °C…+60 °C
Humidity	40°C/93% RH, no condensation
Approvals	CE; cULus;
Insulation coordination (EN 50178)	
Standards	EN 50178
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 µs)
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2
Protective separation to VDE 0106 part 101	

Dimensions		Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm	93 / 6.1 / 92	94 / 6.1 / 91
Note		Cross-connectors and markers - refer to MICROSERIES accessories	

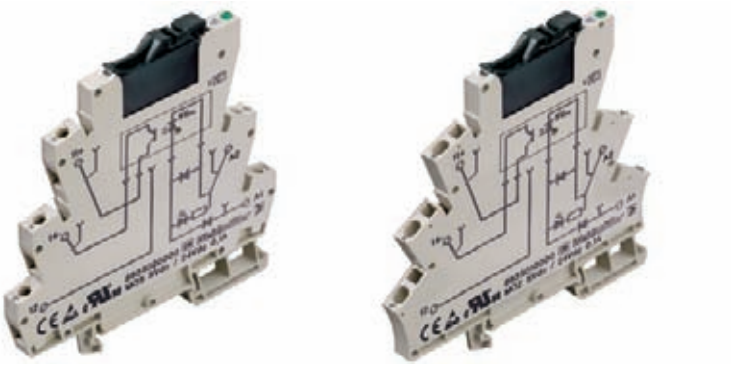
Ordering data

	24 V DC ACT	120 V AC 1CO RC	230 V UC 1CO	
Input				
Rated voltage	24 V DC ±20 %	120 V AC + 10 %/ -15 %	230 V UC +10 % / -15 %	
Rated current AC		7 mA	3.5 mA	
Rated current DC	6.6 mA		2.9 mA	
Power rating	160 mW	0.84 VA	0.8 VA / 660 mW	
AC Response/dropout Volt		79 V / 65 V	146 V / 124 V	
DC Response/dropout Volt	15,4 V / 6,5 V		155 V / 115 V	
AC pickup/dropout current		4.5 mA / 3.7 mA	1.9 mA / 1.5 mA	
DC pickup/dropout current	4 mA / 1,2 mA		1.9 mA / 1.0 mA	
Ordering data Complete module				
Screw connection Type	MRS 24Vdc ACT	MRS 120VUC 1CO RC	MRS 230VUC 1CO	
Order No.	**8660920000**	**8825970000**	**8825990000**	
Tension clamp connection Type	MRZ 24VDC ACT	MRZ 120VUC 1CO RC	MRZ 230VUC 1CO	
Order No.	**8660910000**	**8825960000**	**8825980000**	
Ordering data Spare relay, pluggable				
Type	RSS113024 24Vdc-Rel1U	RSS113060 60Vdc-Rel1U	RSS113060 60Vdc-Rel1U	
Order No.	**4060120000**	**4061630000**	**4061630000**	
Note				

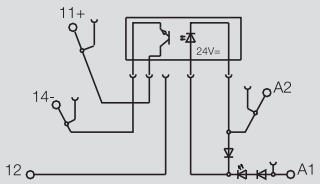
MOS / MOZ 3…48 V DC / 0.1 A

Universal interface between control and sensor/actuator

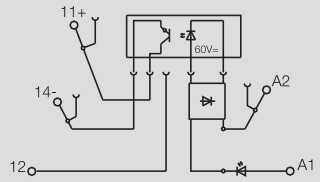
- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35



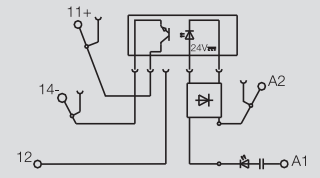
(24 V DC)



(120 V UC)



(230 V AC)



Load side	
Nominal switching voltage	3…48 V DC
Nominal switching current	0.1 A
Voltage drop at max. load	≤ 1 V
Leakage current	≤ 1 mA
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C…+50 °C
Storage temperature	-40 °C…+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2

Dimensions		Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm	93 / 6.1 / 92	94 / 6.1 / 91
Note		Cross-connectors and markers - refer to MICROSERIES accessories	

Ordering data

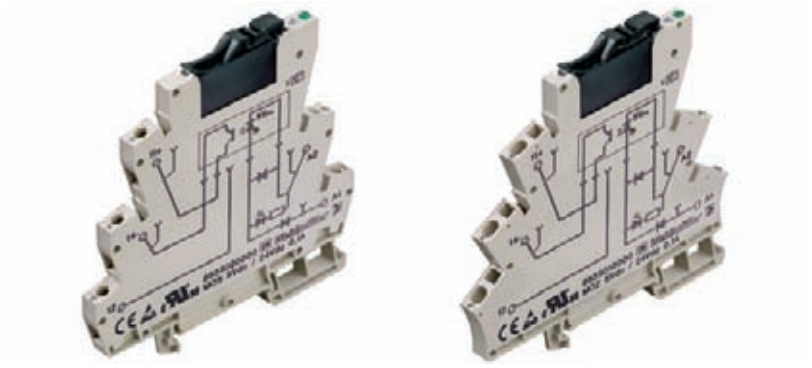
	5 V DC / 24 V DC 0.1 A	24 V DC / 24 V DC 0,1 A	120 V UC / 24 V DC 0,1 A	230 V AC / 24 V DC 0,1 A
Control side				
Rated voltage	5 V DC ±20%	24 V DC ±20 %	120 V UC + 10 %/ -15 %	230 V AC ±10%
Power rating	55 mW ±10 %	140 mW	340 mW / 0.4 VA	1.7 VA
max. input frequency	10 Hz	300 Hz	DC: 10 Hz /AC: 3 Hz	3 Hz
Switch-on delay	< 6,5 ms	35µs	< 6.5 ms	< 6.5 ms
Switch-off delay	< 10 ms	355µs	< 10 ms	< 10 ms

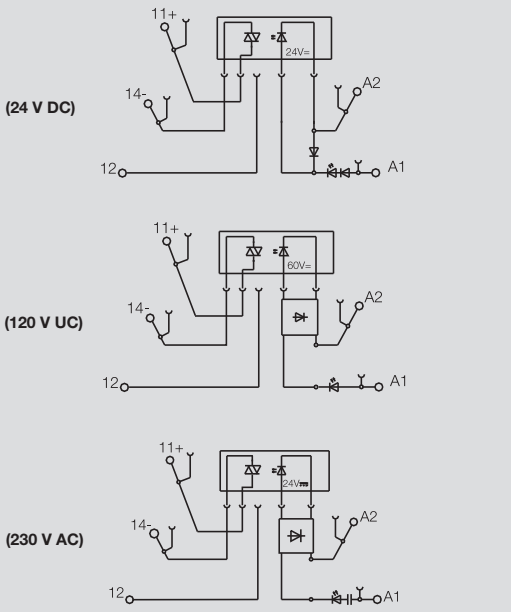
Ordering data Complete module					
Screw connection	Type	MOS 5Vdc / 24Vdc 0,1A	MOS 24Vdc / 24Vdc 0.1A	MOS 120Vuc / 24Vdc 0.1A	MOS 230Vac / 24Vdc 0.1A
	Order No.	**8633020000**	**8607340000**	**8607690000**	**8607710000**
Tension clamp connection	Type	MOZ 5Vdc / 24Vdc 0.1A	MOZ 24Vdc / 24Vdc 0,1A	MOZ 120Vuc / 24Vdc 0.1A	MOZ 230Vac / 24Vdc 0.1A
	Order No.	**8633010000**	**8607360000**	**8607730000**	**8607750000**
Ordering data Spare relay, pluggable					
	Type	SSS Relais 5V/24V 0,1ADC	SSS Relais 24V/24V 0,1Adc	SSS Relais 60V/24V 0,1Adc	SSS Relais 24V/24V 0,1Adc
	Order No.	**4064320000**	**4061180000**	**4061230000**	**4061180000**
Note					

MOS / MOZ 24…240 V AC / 1 A

Universal interface between control and sensor/actuator

- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35





Load side	
Nominal switching voltage	24…240 V AC
Nominal switching current	1 A
Voltage drop at max. load	approx. 1.6 V
Leakage current	≤ 20 µA
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C…+50 °C
Storage temperature	-40 °C…+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2

Dimensions		Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm	93 / 6.1 / 92	94 / 6.1 / 91
Note		Cross-connectors and markers - refer to MICROSERIES accessories	

Ordering data

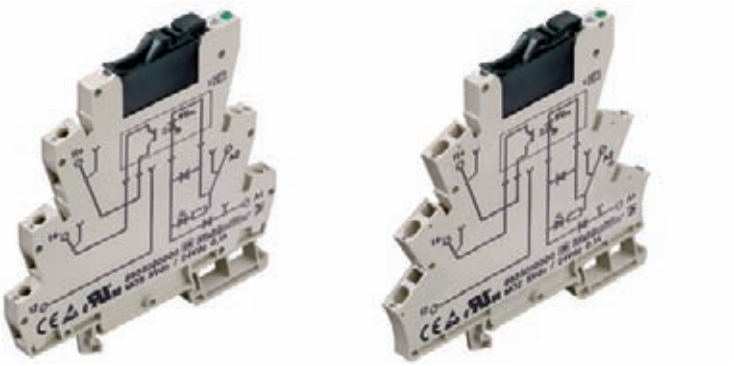
	24 V DC / 230 V AC 1 A	120 V UC / 230 V AC 1 A	230 V AC / 230 V AC 1 A	
Control side				
Rated voltage	24 V DC ±20 %	120 V UC + 10 %/ -15 %	230 V UC ±10 %	
Power rating	250 mW ± 15 %	0.4 VA ±15%	1,7 VA ± 20%	
max. input frequency	3 Hz	3 Hz	3 Hz	
Switch-on delay	< 11 ms	< 11 ms	< 20 ms	
Switch-off delay	< 11 ms	< 11 ms	< 20 ms	

Ordering data Complete module					
Screw connection	Type	MOS 24Vdc/ 230VAC 1A	MOS 120Vuc / 230VAC 1A	MOS 230Vuc/ 230Vac 1A	
	Order No.	**8652010000**	**8651930000**	**8651990000**	
Tension clamp connection	Type	MOZ 24Vdc/ 230VAC 1A	MOZ 120Vuc / 230VAC 1A	MOZ 230Vuc/ 230VAC 1A	
	Order No.	**8652020000**	**8651950000**	**8651970000**	
Ordering data Spare relay, pluggable					
	Type	SSS Relais 24V/230V 1Aac	SSS Relais 60V/230V 1Aac	SSS Relais 24V/230V 1Aac	
	Order No.	**4061210000**	**4061220000**	**4061210000**	
Note					

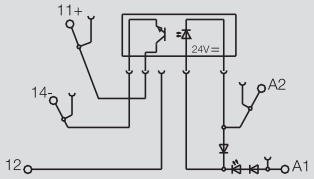
MOS / MOZ 3…33 V DC / 2 A

Universal interface between control and sensor/actuator

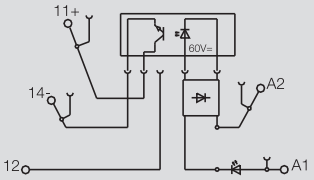
- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35



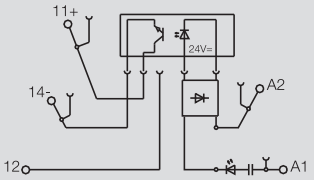
(24 V DC)



(120 V UC)



(230 V AC)



Load side	
Nominal switching voltage	3…33 V DC
Nominal switching current	2 A
Voltage drop at max. load	≤ 120 mV
Leakage current	≤ 1 mA
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C…+50 °C
Storage temperature	-40 °C…+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2

Dimensions		**Screw connection**	**Tension clamp connection**
Clamping range (rating- / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm	93 / 6.1 / 92	94 / 6.1 / 91
Note		Cross-connectors and markers - refer to MICROSERIES accessories	

Ordering data

	5 V DC / 24 V DC 2 A	**24 V DC / 24 V DC 2 A**	**120 V UC / 24 V DC 2 A**	**230 V AC / 24 V DC 2 A**
Control side				
Rated voltage	5 V DC ±20%	24 V DC ±20 %	120 V UC + 10 %/ -15 %	230 V AC ±10%
Power rating	55 mW ±10 %	140 mW	340 mW / 0.4 VA	1.7 VA
max. input frequency	300 Hz	300 Hz	DC: 10 Hz /AC: 3 Hz	3 Hz
Switch-on delay	< 55 µs	< 55 µs	< 6.5 ms	< 6.5 ms
Switch-off delay	< 1 ms	< 1.2 ms	< 10 ms	< 10 ms

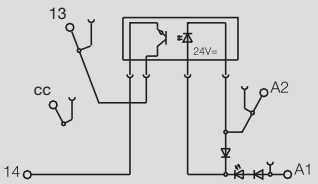
Ordering data Complete module					
Screw connection	Type	MOS 5Vdc / 24Vdc 2A	MOS 24Vdc / 24Vdc 2A	MOS 120Vuc / 24Vdc 2A	MOS 230Vac / 24Vdc 2A
	Order No.	**8633000000**	**8607350000**	**8607700000**	**8607720000**
Tension clamp connection	Type	MOZ 5Vdc / 24Vdc 2A	MOZ 24Vdc / 24Vdc 2A	MOZ 120Vuc / 24Vdc 2A	MOZ 230Vac / 24Vdc 2A
	Order No.	**8632990000**	**8607370000**	**8607740000**	**8607760000**
Ordering data Spare relay, pluggable					
	Type	SSS Relais 5V/24V 2ADC	SSS Relais 24V/24V 2Adc	SSS Relais 60V/24V 2Adc	SSS Relais 24V/24V 2Adc
	Order No.	**4064310000**	**4061190000**	**4061200000**	**4061190000**
Note					

MOS / MOZ actuator version 3…33 V DC / 2 A

Universal interface between control and sensor/actuator

- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35
- 24 V DC actuator version:
  Bridgeable, potential-free connection of actuators on output

(24 V DC)



Load side		
Nominal switching voltage		3…33 V DC
Nominal switching current		2 A
Voltage drop at max. load		≤ 120 mV
Short-circuit-proof/Protective circuit		no/Integrated free-wheel diode
General data		
Ambient temperature (operational)		-25 °C…+50 °C
Storage temperature		-40 °C…+60 °C
Approvals		CE; cULus;
Insulation coordination (EN 50 178)		
Standards		EN 50178
Rated voltage		300 V
Rated impulse withstand voltage		4.0 kV
Clearance and creepage distances for control/load side		≥ 5.5 mm
Surge category		III
Pollution severity		2

Dimensions		Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm	93 / 6.1 / 92	94 / 6.1 / 91
Note		Cross-connectors and markers - refer to MICROSERIES accessories	

Ordering data

	24 V DC ACT
Control side	
Rated voltage	24 V DC ±20 %
Power rating	140 mW ±10 %
max. input frequency	
Switch-on delay	< 55 µs
Switch-off delay	< 1,2 ms

Ordering data Complete module		
Screw connection	Type	MOS 24Vdc / 24Vdc ACT
	Order No.	**8676250000**
Tension clamp connection	Type	MOZ 24Vdc / 24Vdc ACT
	Order No.	**8676230000**

Ordering data Spare relay, pluggable		
	Type	SSS Relais 24V/24V 2Adc
	Order No.	**4061190000**

Note

H-system cables

All PLCs




Card type	16-Input/Output card	16-Input/Output card (LC)	16-Input/Output card	16-Input/Output card (LC)
Order No.	7789100xxx	7789388xxx	7789306xxx	7789301xxx
Data				
Interface connector	HE - 20-pole female	HE - 20-pole female	HE - 20-pole female	HE - 20-pole female
Cable type	0.25 mm² LIYY	0.14 mm² LIYY	0.25 mm² LIYY	0.14 mm² LIYY
Resistance	< 80 Ω/km	< 150 Ω/km	< 80 Ω/km	< 150 Ω/km
PLC connector	No connector - ferrules	No connector - ferrules	HE – 20-pole female	HE – 20-pole female

S-system cables

All PLCs




Card type	4-Input/Output card	8-Input/Output card	16-Input/Output card	8 - 16-Input/Output card
Order No.	7789250xxx	7789252xxx	7789254xxx	7789262xxx
Data				
Interface connector	D-Sub - 15-pole female	D-Sub - 25-pole female	D-Sub - 37-pole female	D-Sub - 37-pole female
Cable type	0.25 mm² LIYCY	0.25 mm² LIYCY	0.25 mm² LIYCY	0.25 mm² LIYCY
Resistance	< 80 Ω/km	< 80 Ω/km	< 80 Ω/km	< 80 Ω/km
PLC connector	No connector - ferrules	No connector - ferrules	No connector - ferrules	D-Sub - 37-pole male

Universal Cables

R System cables

All PLCs

Card type	32-Input/Output card	16-Input/Output card	8-Input/Output card
Order No.	**7789106xxx**	**7789104xxx**	**7789108xxx**
Data			
Interface connector	RSV 1.6 - 36-pole male	RSV 1.6 - 24-pole male	RSV 1.6 - 12-pole male
Cable type	0.25 mm^2 LIYY	0.25 mm^2 LIYY	0.25 mm^2 LIYY
Resistance	< 80 Ω/km	< 80 Ω/km	< 80 Ω/km
PLC connector	No connector - ferrules	No connector - ferrules	No connector - ferrules

Table of color codes according to DIN 47.100

No.	Color	No.	Color	No.	Color
1	White	22	Brown/Blue	43	Blue/Black
2	Brown	23	White/Red	44	Red/Black
3	Green	24	Brown/Red	45	White/Brown/Black
4	Yellow	25	White/Black	46	Yellow/Green/Black
5	Gray	26	Brown/Black	47	Gray/Pink/Black
6	Pink	27	Gray/Green	48	Blue/Red/Black
7	Blue	28	Yellow/Gray	49	White/Green/Black
8	Red	29	Pink/Green	50	Green/Brown/Black
9	Black	30	Yellow/Pink	51	White/Yellow/Black
10	Violet	31	Green/Blue	52	Yellow/Brown/Black
11	Gray/Pink	32	Yellow/Blue	53	White/Gray/Black
12	Red/Blue	33	Green/Red	54	Gray/Brown/Black
13	White/Green	34	Yellow/Red	55	White/Pink/Black
14	Brown/Green	35	Green/Black	56	Pink/Brown/Black
15	White/Yellow	36	Yellow/Black	57	White/Blue/Black
16	Yellow/Brown	37	Gray/Blue	58	Brown/Blue/Black
17	White/Gray	38	Pink/Blue	59	White/Red/Black
18	Gray/Brown	39	Gray/Red	60	Brown/Red/Black
19	White/Pink	40	Pink/Red	61	Black/White
20	Pink/Brown	41	Gray/Black		
21	White/Blue	42	Pink/Black		

Preassembled control lead

The control lead is preassembled with 10 or 40 pole plug-in socket according to IEC 603/1 DIN 41 651.

It is used for connecting the PLC front adapter with the passive or active PLC input/output modules.

The connecting line for the PLC system interface is available in standard lengths of 1m to 5m.

Spring socket DIN 416451 / IEC 603-1

No.	Color code	Function
1	black	B-
2	brown	B3 +
3	red	B3.7
4	orange	B3.6
5	yellow	B3.5
6	green	B3.4
7	blue	B3.3
8	violet	B3.2
9	gray	B3.1
10	white	B3.0
11	white/black	B-
12	white/brown	B2 +
13	white/red	B2.7
14	white/orange	B2.6
15	white/yellow	B2.5
16	white/green	B2.4
17	white/blue	B2.3
18	white/violet	B2.2
19	white/gray	B2.1
20	brown/black	B2.0
21	brown/red	B-
22	brown/orange	B1 +
23	brown/yellow	B1.7
24	brown/green	B1.6
25	brown/blue	B1.5
26	brown/violet	B1.4
27	brown/gray	B1.3
28	brown/white	B1.2
29	green/black	B1.1
30	green/brown	B1.0
31	green/red	B-
32	green/orange	B0 +
33	green/blue	B0.7
34	green/violet	B0.6
35	green/gray	B0.5
36	green/white	B0.4
37	yellow-black	B0.3
38	yellow-brown	B0.2
39	yellow-red	B0.1
40	yellow-orange	B0.0

Technical data

Rated voltage	300 V
Current carrying capacity	1 A
Total current load	
- 40-pole lead	26 A/ØT = 20 K
- 10-pole lead	11,5 A/ØT = 20 K
Rated cross-section of cores	0,14 mm²
Resistance value	55 mΩ/m
Storage temperature	-10 °C...+80 °C

Ordering data

Ribbon round conductor designed on both sides

Type	Length*	Order No.
10-pole plug connector for transfer of 1 byte to DIN 41651 / IEC 603-1		
FBK 10/100 RK	1.00 m	**8235360000**
FBK 10/200 RK	2.00 m	**8235380000**
FBK 10/350 RK	3.50 m	**8235410000**
FBK 10/400 RK	4.00 m	**8235420000**
FBK 10/500 RK	5.00 m	**8235440000**

* special lengths on request

Ordering data

Ribbon round conductor designed on both sides

Type	Length*	Order No.
40-pole plug connector for transfer of 4 byte to DIN 41651 / IEC 603-1		
FBK 40/050 RK	1.00 m	**8216350000**
FBK 40/150 RK	1.50 m	**8216360000**
FBK 40/200 RK	2.00 m	**8216370000**
FBK 40/250 RK	2.50 m	**8216380000**
FBK 40/300 RK	3.00 m	**8216390000**
FBK 40/350 RK	3.50 m	**8216400000**
FBK 40/400 RK	4.00 m	**8216410000**
FBK 40/500 RK	5.00 m	**8235350000**

Electromechanical relays

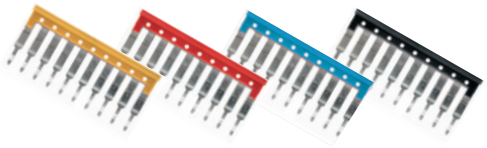
Relay type	Type Riderseries - 1CO	Type Riderseries - 2CO	Type Microseries - 1CO	
Order No.	RCL 314024 **8693260000**	RCL 424024 **4058570000**	RSS 113024 (standard)	**4060120000**
			RSS 112024 (Au plated)	**4061590000**
Data			**Standard**	**Au plated**
Coil rated voltage	24 Vdc (+10, -30%)	24 Vdc (+10, -30%)	24 Vdc (+/– 20%)	
Coil rated current/Power consumption	17 mA / 0.4 VA	17 mA / 0.4 VA	6.6 mA / 160 mW	
Release Voltage/Min. holding current	2.4 V/1.6 mA	2.4 V/ 1.6 mA	6.5 V/ 1.2 mA	
Contact configuration	1CO	2CO	1CO	
Contact material	AgNi 90/10	AgNi 90/10	$AgSnO_2$	$AgSnO_2$ 5µ Au
Max. turn on delay / max turn-off delay	7 ms / 3 ms (20 ms with damping diode.)	7 ms / 3 ms (20 ms with damping diode.)	5 ms / 2.5 ms	
Power/ max. resistive load switchable under AC	4000 VA / 250 V - 16 A ($cos\varphi$=1)	2000 VA / 250 V - 8 A ($cos\varphi$=1)	1500 VA / 250 V - 6 A ($cos\varphi$=1)	
Power/max. switchable resistive load under DC	300 W / 30 V - 10 A (L/R=0 ms)	150 W / 30 V - 5 A (L/R=0 ms)	–	
Max. current	16 A	8 A	6 A	
Min. switchable load	10 mA/ 12 V	10 mA/ 12 V	100 mA / 12 V	10 mA / 12 V
Dielectric strength voltage (coil/contact)	4000 Vac (50/60Hz) / 1 min.	4000 Vac (50/60Hz) / 1 min.		
Dielectric strength voltage (between contacts of the same pole)	1000 Vac (50/60Hz) / 1 min.	1000 Vac (50/60Hz) / 1 min.		
Dielectric strength voltage (between contacts of different poles)	-	2500 Vac (50/60Hz) / 1 min.		
Mechanical service life	30 x 10^6 switching cycles	30 x 10^6 switching cycles	20 x 10^6 switching cycles	
Electrical service life	1 x 10^5 switching cycles (2500 VA - $cos\varphi$=1)	1 x 10^5 switching cycles (1250 VA - $cos\varphi$=1)	6 x 10^4 switching cycles (1500 VA - $cos\varphi$=1)	

Static relays

Static relay type	Type Plugseries - ODC	Type Plugseries - OAC	Type Microseries	
Order No.	STD 07205 **8576340000**	STA 07220 **8576370000**	SSS 24/24-100mA	**4061180000**
			SSS 24/24-2A	**4061190000**
Data			**100 mA version**	**2 A version**
Rated input voltage/operating voltage	15...24 Vdc / 12...30 Vdc	15...24 Vdc - / 12...30 Vdc	24 Vdc/16...30 Vdc	24 Vdc/16...30 Vdc
Input current	max. 10 mA	max. 10 mA	7 mA ±10%	7 mA ±10%
Drop out voltage	–	–	10 Vdc	10 Vdc
Output voltage	max. 30 Vdc	12...275 Vac	3…48 Vdc	3…33 Vdc
Output current	0.001...2.5 Adc	0.05...2 Aac	100 mAdc max.	2 Adc
Inrush current	12 Adc (1 s)	100 Aac (10 ms)	–	–
Turn-on delay	2 ms max.	12 ms max.	–	–
Turn-off delay	18 ms max.	20 ms max.	–	–
Output voltage drop	max. 0.4 V	-	<1 V	<120 mV
Leakage current	10 µA	10 µA	–	–
Dielectric strength voltage (input/output)	4000 Vac	4000 Vac	2500 Vac	2500 Vac

Accessories

General data – MICROSERIES



Plug-in cross-connection

Type yellow	No. of poles	Qty	Order No.
ZQV 4N / 2 GE	2	60	**1758250000**
ZQV 4N / 3 GE	3	60	**1762630000**
ZQV 4N / 4 GE	4	60	**1762620000**
ZQV 4N / 10 GE	10	20	**1758260000**
ZQV 4N / 20	20	20	**1909020000**
red			
ZQV 4N / 2 RT	2	60	**1793950000**
ZQV 4N / 3 RT	3	60	**1793980000**
ZQV 4N / 4 RT	4	60	**1794010000**
ZQV 4N / 10 RT	10	20	**1794040000**
ZQV 4N / 20 RT	20	20	**1909150000**
blue			
ZQV 4N / 2 BL	2	60	**1793960000**
ZQV 4N / 3 BL	3	60	**1793990000**
ZQV 4N / 4 BL	4	60	**1794020000**
ZQV 4N / 10 BL	10	20	**1794050000**
ZQV 4N / 20 BL	20	20	**1909100000**
black			
ZQV 4N / 2 SW	2	60	**1793970000**
ZQV 4N / 3 SW	3	60	**1794000000**
ZQV 4N / 4 SW	4	60	**1794030000**
ZQV 4N / 10 SW	10	20	**1794060000**
ZQV 4N / 20 SW	20	20	**1909120000**

Technical data

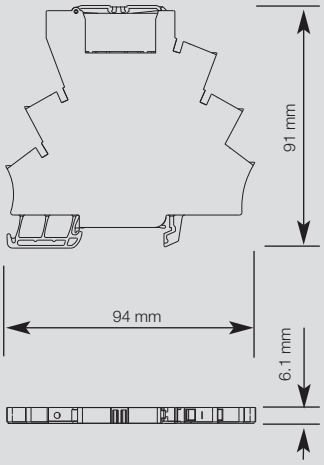
Conductor		Tension clamp connection	Screw connection
Solid H07V-U	mm^2	0.5 … 2.5	0.5 … 4.0
Stranded H07V-K	mm^2	0.5 … 2.5	0.5 … 2.5
“f” with wire end ferrules to DIN 46228-1	mm^2	0.5 … 1.5	0.5 … 1.5
“f” with wire end ferrules with plastic collar	mm^2	0.5 … 1.5	0.5 … 1.5
Max. clamping range	mm^2	0.13 … 2.5	0.13 … 4.0
Plug gauge to IEC 60947-1	size	A 2	A 3
General technical data			
Nominal torque		-	0.6
Continuous current for 2-pole cross-connection	A	10	10
Continuous current for multi-pole cross-connection	A	10	10
Stripping length	mm	10	7
Ingress protection class		IP 20	IP 20
Housing material		Wemid	Wemid
UL 94 flammability rating		V-0	V-0
Nominal current	A	6	6
Nominal voltage	V	250	250

Other accessories

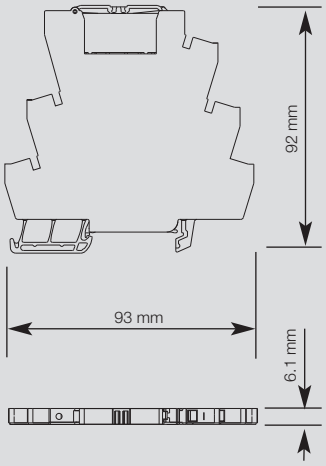
Type Base only		Qty	Order No.
MRZ 24VDC 1CO BASIS		10	**8826000000**
MRS 24VDC 1CO BASIS		10	**8826010000**
MRZ 120VUC 1CO BASIS		10	**8826020000**
MRS 120VUC 1CO BASIS		10	**8826030000**
MRZ 230VAC 1CO BASIS		10	**8826040000**
MRS 230VAC 1CO BASIS		10	**8826050000**
Markers			
WS 12/6	12 x 6 mm	200	**1061160000**
Labels, Lasermark			
LM MT 300 15/6 ge	484 labels / sheet	10	**1686360000**
Screwdriver			
SD 0,6 x 3,5 x 100		10	**9008330000**

Dimensions

Tension clamp connection



Screw connection



Weidmuller Service

Weidmuller Service	Customer specific solutions: best advice, best solutions	V.2
	Overview of services	V.3
	Digital support: RailDesigner®, M-Print® PRO, Online catalog	V.6

Best advice, best solutions

Services tailored to customers' needs

Service – at Weidmuller that means diversity. And it also means that you can take advantage of our comprehensive resources:

- Production of terminal rails and enclosures fitted with our modular terminals and other modules, and prewired
- Fitting of cable glands and the marking of terminals, conductors and enclosures according to your specification
- Competence in the processing of enclosure materials such as aluminum, plastics, sheet steel and stainless steel
- Flexibility in the product selection: besides Weidmuller products we can also integrate yours and even those of other manufacturers

This range of services enables Weidmuller to act as an external service provider to increase your capacities. And demanding standards guarantee a high level of quality every time.

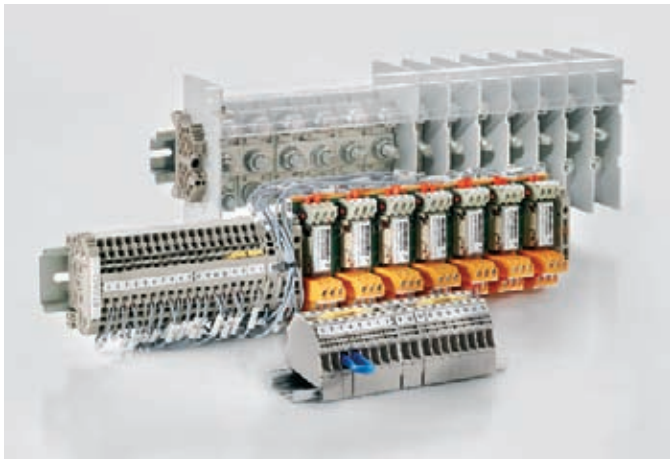
The best advice for the best solutions

The start of a good partnership is always characterized by an intensive exchange of information to define the respective positions. Our contribution focuses on detailed advice with respect to:

- Optimum choice of products
- Practical pre-assembly
- Integration into your systems
- Consideration of requirements such as certification, classes of protection or hazard protection as required by your industry

That avoids mistakes right from the start – totally in keeping with the effective handling of the project, totally in keeping with perfect results. Our experience helps you create the foundation for good business and satisfied customers.

Overview of services



Production of terminal rails

Terminal rails are manufactured from steel, stainless steel, aluminum or copper to suit the diverse applications. And we can produce terminal rails with elongated or round holes, or in other forms to suit your requirements exactly. Terminal rails are fitted with modular terminals or electronic products, prewired and marked according to your specification.

The benefits for you

- No need to procure individual components
- No need to mount individual components
- No unnecessary stocks
- Just one order number for your pre-assembled terminal rail
- Constant high quality

Production of enclosures

High-tech brings benefits. Our state-of-the-art production methods open up new options for you:

- Inclusion of holes and threads in the enclosure
- Enclosure cover with hinges and other accessories if required
- More complex machining such as milling of contours or reaming of holes
- Special paint finishes: To protect against the effects of the weather, your enclosures can be painted individually. Simply specify the color and printing you require. Special paint finishes and powder coating are also possible.

Enclosures are adapted to suit the intended application exactly. You get a tailored, individual product and the quality is guaranteed by our adherence to demanding standards. Does your product require a special approval? Our accredited laboratory can test the complete product and confirm that its design complies with the standards! With every delivery we document the corresponding approvals (e.g., ATEX, GL, UL, GOST, etc.).

The benefits for you

- Enclosures in various sizes and materials
- Inclusion of optional accessories such as hinges and locks
- Complex machining processes and special packaging
- Ready-to-use, certified products for all types of applications.

Overview of services

Electronics production

We manufacture according to your specifications: ranging from PCB assembly to 100%-tested component assemblies. We bring the individual parts together according to your documents: whether for materials procurement, provision, or withdrawal from our stock. All production processes and the entire range of qualified expertise are at our disposal: from hand assembly to SMD assembly. Our state-of-the-art production and testing facilities guarantee consistent quality.

The benefits for you

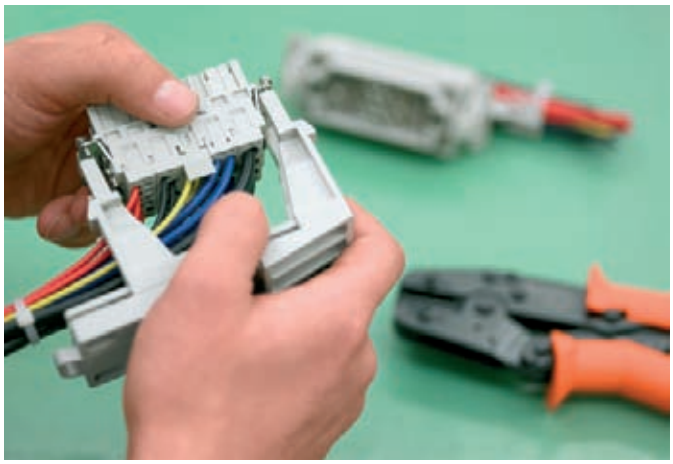
- Solutions for custom tasks
- Complex component assemblies including enclosures from a single-source supplier
- Reduction of your procurement and storage of individual parts

“RockStar” heavy-duty connectors and cable assembly

To help ensure that your switchgear cabinets and installations are put into operation without delay, Weidmuller can supply pre-fabricated components such as heavy-duty connectors. These are assembled and prewired according to your specification and are supplied ready to connect. If required, we can also supply the finished enclosure with the heavy-duty connectors already integrated. An entire spectrum of application possibilities are available with our ConCept modular connector system. This modular system enables the flexible combination of diverse modules. Custom crimping and cabling is included on request! Do you prefer a personal touch? We can laser-label your company logo and article number onto our RockStars! In total compliance with your requirements.

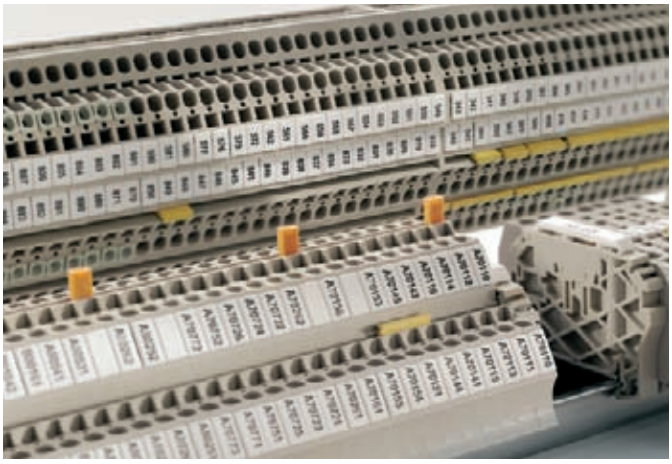
The benefits for you

- Special requirements with respect to font, number of characters, material and printing durability for your markers
- Prewiring of connectors saves you valuable installation time
- Modular connector system can be ordered pre-crimped



Marking

Whether multi-line labeling, white or colored terminal markers or group designations, the Weidmuller range can cater for every marking task – fast, clear and according to European standards. However, we can also supply you with preprinted markers to match your specification. Simply tell us the type of marker you require, the color, the printing sequence and the text, and we'll look after the rest. If required, we can also install the finished markers during assembly.



Equipment labelling

Device markers are essential for marking your electrical installations. Therefore, Weidmuller can supply rating plates designed specially for your application. A wide range of different shapes, colors, materials and fixings – riveted, screwed or bonded with adhesive – are available from which to choose. And a whole range of different fonts mean that we can handle every request.

Integration of special accessories

IIn some cases it is necessary to integrate special accessories. This is no problem for Weidmuller because we can integrate buttons, switches, warning lamps, plugs or couplings – all properly planned, fitted, connected and tested. And that includes the products of other manufacturers as well as our own. We shall also be happy to advise you on standard accessories such as hinges.

The benefits for you

- Rating plates in various materials
- Individual printing or laser engraving
- Equipment and accessories to your specification

Digital support

RailDesigner®

RailDesigner® is a Weidmuller program for planning, assembling and ordering both terminal rails and enclosures. And it's so easy to use:

- Fast acquisition of all necessary data
- Realistic-looking graphic user interface and ideal conditions for simple assembly of your terminal rails and enclosures with all the necessary components
- Simply clip on all the products you need and add accessories such as markers or cross-connectors
- To configure an individual enclosure, simply choose an enclosure type from a standard range and then add holes and other accessories to suit your requirements

These parameters form the foundation for a perfect software assistant. You can view the enclosure on the screen complete with all the configured products, and print out a hardcopy, or simply send the file to Weidmuller via e-mail in the form of an order. RailDesigner® provides you with optimum planning security and clarity during the design phase. And hence simplifies the ordering process enormously.

M-Print® PRO label designer

The comprehensive range of Weidmuller services includes the M-Print® PRO software.
This is a professional-standard, Windows®-based program for printing and ordering labels and markers that is coordinated with our current printing systems and marking materials.

M-Print® PRO enables you to design your labelling materials professionally and quickly. Texts, borders, lines, graphics, barcodes, serial numbers and photographs are all possible. The interface to RailDesigner® or your CAE system enables the transfer of all your configured data.

Online catalog

If you have questions about the specifications and details of our products, perhaps even outside normal business hours, then our online catalog at **http://www.weidmuller.com/catalog** open 24 hours a day, 365 days a year – is the perfect source of information. Besides product features and part numbers, it contains extensive additional information on all product groups. And for further information, offers and your personal contact, simply consult the Weidmuller website at **www.weidmuller.com**.

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PAC-S300-SD25-V1-LLLM	7789229xxx	B.6
PAC-S300-SD25-V2-LLLM	7789230xxx	B.6
PAC-S300-SD25-V3-LLLM	7789233xxx	B.6
PAC-S300-SD25-V4-LLLM	7789196xxx	B.6
PAC-S300-SD37-V0-LLLM	7789225xxx	B.6
PAC-S300-SD37-V1-LLLM	7789226xxx	B.6
PAC-S300-SD37-V2-LLLM	7789231xxx	B.6
PAC-S400-HE20-V0-LLLM	7789290xxx	B.7
PAC-S400-HE20-V1-LLLM	7789291xxx	B.7
PAC-S400-HE20-V2-LLLM	7789292xxx	B.7
PAC-S400-RV12-V0-LLLM	7789283xxx	B.7
PAC-S400-RV24-V0-LLLM	7789273xxx	B.7
PAC-S400-RV36-V0-LLLM	7789270xxx	B.7
PAC-S400-RV36-V2-LLLM	7789278xxx	B.7
PAC-S400-SD25-V0-LLLM	7789285xxx	B.7
PAC-S400-SD25-V1-LLLM	7789286xxx	B.7
PAC-S400-SD25-V2-LLLM	7789287xxx	B.7
PAC-S400-SD25-V3-LLLM	7789288xxx	B.7
PAC-S400-SD37-V0-LLLM	7789284xxx	B.7
PAC-SLC5-HE20-V0-LLLM	7789000xxx	B.13
PAC-SLC5-HE20-V1-LLLM	7789001xxx	B.13
PAC-SLC5-HE20-V2-LLLM	7789002xxx	B.13
PAC-SLC5-HE20-V3-LLLM	7789003xxx	B.13
PAC-SLC5-HE20-V4-LLLM	7789005xxx	B.13
PAC-SLC5-HE20-V5-LLLM	7789006xxx	B.13
PAC-SLC5-HE20-V6-LLLM	7789670xxx	B.13
PAC-SLC5-SD15-V0-LLLM	7789008xxx	B.13
PAC-SLC5-SD15-V1-LLLM	7789009xxx	B.13
PAC-SLC5-SD15-V2-LLLM	7789010xxx	B.13
PAC-SLC5-SD25-V0-LLLM	7789011xxx	B.13
PAC-STOP-HE20-V0-LLLM	7789293xxx	B.6
PAC-STOP-HE20-V0-LLLM	7789293xxx	B.7
PAC-TWDO-HE20-V0-LLLM	7789326xxx	B.10
PAC-TWDO-HE20-V1-LLLM	7789327xxx	B.10
PAC-TWDO-HE20-V2-LLLM	7789328xxx	B.10
PAC-TWDO-HE20-V3-LLLM	7789329xxx	B.10
PAC-UNIV-HE20-1:1-LLLM	7789301xxx	B.11
PAC-UNIV-HE20-1:1-LLLM	7789301xxx	B.8
PAC-UNIV-HE20-1:1-LLLM	7789301xxx	B.9
PAC-UNIV-HE20-1:1-LLLM	7789301xxx	C.31
PAC-UNIV-HE20-F-LLLM	7789100xxx	B.10
PAC-UNIV-HE20-F-LLLM	7789100xxx	B.13
PAC-UNIV-HE20-F-LLLM	7789100xxx	B.19
PAC-UNIV-HE20-F-LLLM	7789100xxx	C.31
PAC-UNIV-HE20-LCF-LLLM	7789388xxx	C.31
PAC-UNIV-HE20-LCH-LLLM	7789306xxx	C.31
PAC-UNIV-RV12-F-LLLM	7789108xxx	B.10
PAC-UNIV-RV12-F-LLLM	7789108xxx	B.19
PAC-UNIV-RV12-F-LLLM	7789108xxx	C.32
PAC-UNIV-RV24-F-LLLM	7789104xxx	B.10
PAC-UNIV-RV24-F-LLLM	7789104xxx	B.19
PAC-UNIV-RV24-F-LLLM	7789104xxx	C.32
PAC-UNIV-RV36-F-LLLM	7789106xxx	C.32
PAC-UNIV-SD15-F-LLLM	7789250xxx	B.10
PAC-UNIV-SD15-F-LLLM	7789250xxx	C.31
PAC-UNIV-SD15-F-LLLM	7789251xxx	B.18
PAC-UNIV-SD15-V0-LLLM	7789257xxx	B.8
PAC-UNIV-SD25-F-LLLM	7789252xxx	B.18
PAC-UNIV-SD25-F-LLLM	7789252xxx	C.31
PAC-UNIV-SD25-V0-LLLM	7789259xxx	B.9
PAC-UNIV-SD37-F-LLLM	7789254xxx	C.31
PAC-UNIV-SD37-V0-LLLM	7789262xxx	C.31
R		
RCL314024	8693260000	C.34
RCL424024	4058570000	C.34
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RD-15, Male w/accessory holes	912395	A.10
RD-15, Female standard	915940	A.9
RD-15, Male standard	915958	A.9
RD-15JS, Male w/accessory holes	910644	A.10
RD-15JS, Female w/accessory holes	912393	A.10
RD-15JS, Male standard	915941	A.9
RD-15JS, Female standard	915942	A.9
RD-25, Female w/accessory holes	912400	A.10
RD-25, Male w/accessory holes	912405	A.10
RD-25, Male standard	915947	A.9
RD-25, Female standard	915948	A.9
RD-25JS, Female w/accessory holes	910645	A.10
RD-25JS, Male w/accessory holes	910648	A.10
RD-25JS, Male standard	915949	A.9
RD-25JS, Female standard	915953	A.9
RD-37, Female w/accessory holes	910075	A.10
RD-37, Male w/accessory holes	913155	A.10
RD-37, Male standard	915954	A.9
RD-37, Female standard	915955	A.9
RD-37JS, Female w/accessory holes	910640	A.10
RD-37JS, Male w/accessory holes	910642	A.10
RD-37JS, Male standard	915956	A.9
RD-37JS, Female standard	915957	A.9
RD-50, Male w/accessory holes	911883	A.10
RD-50, Female w/accessory holes	911885	A.10
RD-50, Female standard	919657	A.9
RD-50, Male standard	919658	A.9
RD-50JS, Male w/accessory holes	911884	A.10
RD-50JS, Female w/accessory holes	911886	A.10
RD-50JS, Female standard	919655	A.9
RD-50JS, Male standard	919656	A.9
RD-9, Female w/accessory holes	912380	A.10
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RD-9, Female standard	915934	A.9
RD-9JS, Male w/accessory holes	910638	A.10
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RI-IDC 10, Male w/accessory holes	914890	A.7
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RI-IDC 14, Male w/accessory holes	914891	A.7
RI-IDC 14, Male standard	915912	A.7
RI-IDC 16, Male w/accessory holes	914892	A.7
RI-IDC 16, Male standard	915913	A.7
RI-IDC 20, Male w/accessory holes	914893	A.7
RI-IDC 20, Male standard	915914	A.7
RI-IDC 26, Male w/accessory holes	914894	A.7
RI-IDC 26, Male standard	915915	A.7
RI-IDC 30, Male w/accessory holes	914895	A.7
RI-IDC 30, Male standard	915916	A.7
RI-IDC 34, Male w/accessory holes	914896	A.7
RI-IDC 34, Male standard	915917	A.7
RI-IDC 40, Male w/accessory holes	914897	A.7
RI-IDC 40, Male standard	915918	A.7
RI-IDC 50, Male w/accessory holes	914898	A.7
RI-IDC 50, Male standard	915919	A.7
RI-IDC 60, Male w/accessory holes	914899	A.7
RI-IDC 60, Male standard	915920	A.7
RI-IDC 64, Male w/accessory holes	914900	A.7
RI-IDC 64, Male standard	915921	A.7
RJ 4A	912171	A.15
RJ 6A	911915	A.15
RJ 8A	911916	A.15
RS F10 8R OUT 24VDC	8329800000	C.18
RS F10 8RS OUT LMZF	8430990000	C.19
RS F10 I/O8 LD LPK2	8224260000	C.13
RS F10 I/O8 LMZF	8428870000	C.11
RS F10 I/O8 LMZF	8428870000	C.4
RS F10 I/O8 LMZF	8428870000	C.5
RS F10 I/O8 LMZF	8428870000	C.6
RS F10 I/O8 LPK2	8224290000	C.13
RS F10 INIT8 LD LMZF	8428890000	C.14
RS F10 LP2N 5/10	224961001	A.8
RS F10 LP3R 3/12	8012850000	A.8
RS F10 LPK 2H/12	8155610000	A.6
RS F10 LPK 2H/12	8248050000	C.12
RS F10 LPK 2H/12	8248050000	C.4
RS F10 LPK 2H/12	8248050000	C.5
RS F10 LPK 2H/12	8248050000	C.6
RS F10 Z	8537190000	A.6
RS F14 LP2N 5/14	225061001	A.8
RS F14 LP3R 3/14	8012860000	A.8
RS F14 LPK 2H/16	8258980000	A.6
RS F14 Z	8537200000	A.6
RS F16 LP2N 5/16	225161001	A.8
RS F16 LP3R 3/18	8012870000	A.8
RS F16 LPK 2H/18	8265540000	A.6
RS F20 LP2N 5/20	224261001	A.8
RS F20 LP3R 3/21	8012910000	A.8
RS F20 LPK 2H/22	8155600000	A.6
RS F20 Z	8537110000	A.6
RS F26 LP2N 5/26	224861001	A.8
RS F26 LP3R 3/27	8012920000	A.8
RS F26 LPK 2H/28	8213470000	A.6
RS F26 Z	8537180000	A.6
RS F34 LP2N 5/34	224361001	A.8
RS F34 LP3R 3/36	8012930000	A.8
RS F34 LPK 2H/36	8155590000	A.6
RS F34 Z	8537130000	A.6
RS F40 16RS OUT 24VDC	8224181001	C.17
RS F40 16RS OUT 24VDC E	8224191001	C.17
RS F40 32RS OUT LMZF	8431000000	C.20
RS F40 I/O32 LMZF	8428880000	C.11
RS F40 INIT32 LD LMZF	8428900000	C.15
RS F40 INIT32 LMZF	8430980000	C.15
RS F40 LP2N 5/40	224461001	A.8
RS F40 LP3R 3/42	8012940000	A.8
RS F40 LPK 2H/42	8155580000	A.6
RS F40 LPK 2H/42	8248060000	C.12
RS F40 Z	8537140000	A.6
RS F50 LP2N 5/50	224561001	A.8
RS F50 LP3R 3/51	8012950000	A.8
RS F50 LPK 2H/52	8155570000	A.6
RS F50 Z	8537150000	A.6
RS F60 LP2N 5/60	224661001	A.8
RS F60 LP3R 3/63	8012960000	A.8
RS F60 LPK 2H/62	8259000000	A.6
RS F64 LP2N 5/64	224761001	A.8
RS F64 LP3R 3/66	8012970000	A.8
RS F64 LPK 2H/66	8155550000	A.6
RS LPK3/144 VERT	8199510000	A.14
RS RJ45	8611320000	A.15
RS RJ45 2WAY	8555440000	A.15
RS SD15 BZ	8537400000	A.11
RS SD15 SZ	8537390000	A.11
RS SD15B LP3R	8019890000	A.12
RS SD15B UNC 4.40 LP2N	8005211001	A.12
RS SD15B UNC LPK2	8209730000	A.11
RS SD15S LP3R	8019940000	A.12
RS SD15S UNC 4.40	8005201001	A.12
RS SD15S UNC LPK2	8233350000	A.11
RS SD25 BZ	8537380000	A.11
RS SD25 SZ	8537370000	A.11
RS SD25B LP3R	8019900000	A.12
RS SD25B UNC 4.40 LP2N	8005191001	A.12
RS SD25B UNC LPK2	8155620000	A.11
RS SD25S LP3R	8019950000	A.12
RS SD25S UNC 4.40 LP2N	8005181001	A.12
RS SD25S UNC LPK2	8155650000	A.11
RS SD37 BZ	8537250000	A.11
RS SD37 SZ	8537240000	A.11
RS SD37B LP3R	8019910000	A.12
RS SD37B UNC 4.40 LP2N	8003891001	A.12
RS SD37B UNC LPK2	8155630000	A.11
RS SD37S LP3R	8019960000	A.12
RS SD37S UNC 4.40 LP2N	8003881001	A.12
RS SD37S UNC LPK2	8155660000	A.11
RS SD50 SZ	8537350000	A.11
RS SD50B LP3R	8019920000	A.12
RS SD50B UNC 4.40 LP2N	8005171001	A.12
RS SD50S LP3R	8019970000	A.12
RS SD50S UNC 4.40 LP2N	8005161001	A.12
RS SD50S UNC LPK2	8155670000	A.11
RS SD9 BZ	8537320000	A.11
RS SD9 SZ	8537260000	A.11
RS SD9B LP3R	8019880000	A.12
RS SD9B UNC 4.40 LP2N	8003911001	A.12
RS SD9B UNC LPK2	8216480000	A.11
RS SD9S LP3R	8019930000	A.12
RS SD9S UNC 4.40 LP2N	8003901001	A.12
RS SD9S UNC LPK2	8259010000	A.11
RS VERT16 LPK2	8234620000	A.13
RS VERT8 LPK2	8252010000	A.13
RS12ES-D-L H/V	9445630000	B.21
RS12ES-D-L H/V	9445630000	B.23
RS16AIO/I-M-DP SD/Z	9449120000	B.54
RS16AIO/I-M-DP SD/Z	9449120000	B.58
RS16E RSV1,6/V	9441500000	B.21
RS16E RSV1,6/V	9441500000	B.27
RS16EC-O-D 115Vuc H/V	9446910000	B.39
RS16EC-O-D 115Vuc H/V	9446910000	B.41
RS16EC-O-D 230Vac H/V	9446920000	B.39
RS16EC-O-D 230Vac H/V	9446920000	B.41
RS16EC-O-D 24-48V H/V	9446900000	B.39
RS16EC-O-D 24-48V H/V	9446900000	B.40
RS16ES H/V	9445700000	B.21
RS16ES H/V	9445700000	B.24
RS16ES H/Z	9447700000	B.21
RS16ES H/Z	9447700000	B.24
RS16ES-3E/I RSV 1,6/V	9441600000	B.21
RS16ES-3E/I RSV 1,6/V	9441600000	B.29
RS16ESA/I-M-DP SD/V	9448120000	B.54
RS16ESA/I-M-DP SD/V	9448120000	B.58
RS16ESA-DP SD/V	9448020000	B.54
RS16ESA-DP SD/V	9448020000	B.58
RS16ES-D H/V	9445720000	B.21
RS16ES-D H/V	9445720000	B.25
RS16ES-D-F H/V	9445820000	B.21
RS16ES-D-F H/V	9445820000	B.26
RS16ES-D-I-L H/V	9445750000	B.21
RS16ES-D-I-L H/V	9445750000	B.25
RS16ES-D-I-L H/Z	9447750000	B.21
RS16ES-D-I-L H/Z	9447750000	B.25
RS16ES-D-L H/V	9445730000	B.21
RS16ES-D-L H/V	9445730000	B.25
RS16ES-D-L H/Z	9447730000	B.21
RS16ES-D-L H/Z	9447730000	B.25
RS16es-DP RSV1,6/V	9441700000	B.21
RS16es-DP RSV1,6/V	9441700000	B.28
RS16ES-DP/F RSV1,6/V	9441560000	B.21
RS16ES-DP/F RSV1,6/V	9441560000	B.28
RS16ES-I RSV1,6/V	9441860000	B.21
RS16ES-I RSV1,6/V	9441860000	B.27
RS16ES-L H/V	9445710000	B.21
RS16ES-L H/V	9445710000	B.24
RS16ES-L H/Z	9447710000	B.21
RS16ES-L H/Z	9447710000	B.24
RS16ES-S-I-L H/V	9445810000	B.21
RS16ES-S-I-L H/V	9445810000	B.24
RS16ES-T H/V	9445760000	B.21
RS16ES-T H/V	9445760000	B.26
RS16ES-T-L H/V	9445770000	B.21
RS16ES-T-L H/V	9445770000	B.26
RS16ES-T-L H/Z	9447770000	B.21
RS16ES-T-L H/Z	9447770000	B.26
RS32 ES RSV 1,6V	9441510000	B.21
RS32 ES RSV 1,6V	9441510000	B.36
RS32ES H/V	9445900000	B.21
RS32ES H/V	9445900000	B.30
RS32ES H/Z	9447900000	B.21
RS32ES H/Z	9447900000	B.30
RS32ES-3E/I RSV 1,6/V	9441610000	B.21
RS32ES-3E/I RSV 1,6/V	9441610000	B.38
RS32ES-D-F H/V	9445980000	B.21
RS32ES-D-F H/V	9445980000	B.34
RS32ES-D-I-L H/V	9445950000	B.21
RS32ES-D-I-L H/V	9445950000	B.33
RS32ES-D-I-L H/Z	9447950000	B.21
RS32ES-D-I-L H/Z	9447950000	B.33
RS32ES-D-L H/V	9445930000	B.21
RS32ES-D-L H/V	9445930000	B.32
RS32ES-D-L H/Z	9447930000	B.21
RS32ES-D-L H/Z	9447930000	B.32
RS32ES-DP RSV1,6/V	9441710000	B.21
RS32ES-DP RSV1,6/V	9441710000	B.37
RS32ES-DP/F RSV1,6/V	9441570000	B.21
RS32ES-DP/F RSV1,6/V	9441570000	B.37
RS32ES-I RSV1,6/V	9441870000	B.21
RS32ES-I RSV1,6/V	9441870000	B.36
RS32ES-L H/V	9445910000	B.21
RS32ES-L H/V	9445910000	B.30
RS32ES-L H/Z	9447910000	B.21
RS32ES-L H/Z	9447910000	B.30
RS32ES-S-I-L H/V	9445870000	B.21
RS32ES-S-I-L H/V	9445870000	B.31
RS32ES-T H/V	9445960000	B.21
RS32ES-T H/V	9445960000	B.35
RS32ES-T-L H/V	9445970000	B.21
RS32ES-T-L H/V	9445970000	B.35
RS32ES-T-L H/Z	9447970000	B.21
RS32ES-T-L H/Z	9447970000	B.35
RS4ESA/I-M-DP SD/V	9448100000	B.54
RS4ESA/I-M-DP SD/V	9448100000	B.55
RS4ESA-DP SD/V	9448000000	B.54
RS4ESA-DP SD/V	9448000000	B.55
RS8E1SA MICRO SD/V	9448040000	B.54
RS8E1SA MICRO SD/V	9448040000	B.57
RS8EA PREM/APR SD/V	9448030000	B.54
RS8EA PREM/APR SD/V	9448030000	B.57
RS8ESA/I-M-DP SD/V	9448110000	B.54
RS8ESA/I-M-DP SD/V	9448110000	B.56
RS8ESA/I-M-DP SD/Z	9449110000	B.54
RS8ESA/I-M-DP SD/Z	9449110000	B.56
RS8ESA-DP SD/V	9448010000	B.54
RS8ESA-DP SD/V	9448010000	B.56
RS8ES-D-L H/V	9445530000	B.21
RS8ES-D-L H/V	9445530000	B.22
RS8ES-DP RSV 1,6/V	9441540000	B.21
RS8ES-DP RSV 1,6/V	9441540000	B.22
RS-ELCO 38 F/L	912128	A.16
RS-ELCO 38 F/R	912129	A.16
RS-ELCO 38 M/L	912126	A.16
RS-ELCO 38 M/R	912127	A.16
RS-ELCO 56 F/L	912133	A.16
RS-ELCO 56 F/R	912134	A.16
RS-ELCO 56 M/L	912131	A.16
RS-ELCO 56 M/R	912132	A.16
RSM 16C-1RT H/V	9445100000	B.42
RSM 16C-1RT H/V	9445100000	B.46
RSM 16-NV/1RT 24V(+/-)	9444610000	B.42
RSM 16-NV/1RT 24V(+/-)	9444610000	B.45
RSM12C-1RT H/V	9445060000	B.42
RSM12C-1RT H/V	9445060000	B.44
RSM16 1T/CDE-EV 24V-H/V	9445180000	B.42
RSM16 1T/CDE-EV 24V-H/V	9445180000	B.51
RSM16 SLIM-1CO H/V	1079390000	B.42
RSM16 SLIM-1CO H/V	1079390000	B.47
RSM16-1RT-Fo H/V	9445140000	B.42
RSM16-1RT-Fo H/V	9445140000	B.49
RSM16-1RT-Fu H/V	9445120000	B.42
RSM16-1RT-Fu H/V	9445120000	B.50
RSM16-1RT-Fu H/Z	9447120000	B.42
RSM16-1RT-Fu H/Z	9447120000	B.50
RSM16-2RT H/V	9445160000	B.42
RSM16-2RT H/V	9445160000	B.48
RSM16C-1RT H/Z	9447100000	B.42
RSM16C-1RT H/Z	9447100000	B.46
RSM16C-2RT H/Z	9447160000	B.42
RSM16C-2RT H/Z	9447160000	B.48
RSM16-NZ/1RT 24V (-/+)	9444660000	B.42
RSM16-NZ/1RT 24V (-/+)	9444660000	B.45
RSM32-1RT-Fu H/V	9445220000	B.42
RSM32-1RT-Fu H/V	9445220000	B.53
RSM32C-1CO 24VDC H/V	1108470000	B.42
RSM32C-1CO 24VDC H/V	1108470000	B.52
RSM32C-1RT H/Z	9447200000	B.42
RSM32C-1RT H/Z	9447200000	B.52
RSM8C-1RT H/V	9445000000	B.42
RSM8C-1RT H/V	9445000000	B.43
RSM8C-1RT H/Z	9447000000	B.42
RSM8C-1RT H/Z	9447000000	B.43
RSS112024 RELE 24VDC	4061590000	C.34
RSS113005 05Vdc-Rel1U	4061580000	C.25
RSS113012 12Vdc-Rel1U	4061610000	C.25
RSS113024 24Vdc-Rel1U	4060120000	C.25
RSS113024 24Vdc-Rel1U	4060120000	C.26
RSS113024 24Vdc-Rel1U	4060120000	C.34
RSS113048 48Vdc-Rel1U	4061620000	C.25
RSS113060 60Vdc-Rel1U	4061630000	C.25
RSS113060 60Vdc-Rel1U	4061630000	C.26
RS-TCON 50 AF	912201	A.17

S

SD 0,6x3,5x100	9008330000	C.35
SIM S7/300 FB4*10 2.0M	8433310200	C.8
SIM S7/300 FB4*10 2.5M	8433310250	C.8
SIM S7/300 FB4*10 3.0M	8433310300	C.8
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SIM S7/400 FB4*10 2.5M	8335910250	C.9
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912395	RD-15, Male w/accessory holes	A.10
912400	RD-25, Female w/accessory holes	A.10
912405	RD-25, Male w/accessory holes	A.10
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8003911001	RS SD9B UNC 4.40 LP2N	A.12
8005161001	RS SD50S UNC 4.40 LP2N	A.12
8005171001	RS SD50B UNC 4.40 LP2N	A.12
8005181001	RS SD25S UNC 4.40 LP2N	A.12
8005191001	RS SD25B UNC 4.40 LP2N	A.12
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8012970000	RS F64 LP3R 3/66	A.8
8019880000	RS SD9B LP3R	A.12
8019890000	RS SD15B LP3R	A.12
8019900000	RS SD25B LP3R	A.12
8019910000	RS SD37B LP3R	A.12
8019920000	RS SD50B LP3R	A.12
8019930000	RS SD9S LP3R	A.12
8019940000	RS SD15S LP3R	A.12
8019950000	RS SD25S LP3R	A.12
8019960000	RS SD37S LP3R	A.12
8019970000	RS SD50S LP3R	A.12

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8155570000	RS F50 LPK 2H/52	A.6
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8155590000	RS F34 LPK 2H/36	A.6
8155600000	RS F20 LPK 2H/22	A.6
8155610000	RS F10 LPK 2H/12	A.6
8155620000	RS SD25B UNC LPK2	A.11
8155630000	RS SD37B UNC LPK2	A.11
8155650000	RS SD25S UNC LPK2	A.11
8155660000	RS SD37S UNC LPK2	A.11
8155670000	RS SD50S UNC LPK2	A.11

8190000000

8199510000	RS LPK3/144 VERT	A.14

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8209730000	RS SD15B UNC LPK2	A.11

8210000000

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8216360000	FBK 40/150 RK	C.33
8216370000	FBK 40/200 RK	C.33
8216380000	FBK 40/250 RK	C.33
8216390000	FBK 40/300 RK	C.33
8216400000	FBK 40/350 RK	C.33
8216410000	FBK 40/400 RK	C.33
8216480000	RS SD9B UNC LPK2	A.11

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8224191001	RS F40 16RS OUT 24VDC E	C.17
8224260000	RS F10 I/O8 LD LPK2	C.13
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8233350000	RS SD15S UNC LPK2	A.11
8234620000	RS VERT16 LPK2	A.13
8235350000	FBK 40/500 RK	C.33
8235360000	FBK 10/100 RK	C.33
8235380000	FBK 10/200 RK	C.33
8235410000	FBK 10/350 RK	C.33
8235420000	FBK 10/400 RK	C.33
8235440000	FBK 10/500 RK	C.33

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8252010000	RS VERT8 LPK2	A.13
8258980000	RS F14 LPK 2H/16	A.6
8259000000	RS F60 LPK 2H/62	A.6
8259010000	RS SD9S UNC LPK2	A.11

8260000000

8265540000	RS F16 LPK 2H/18	A.6

8320000000

8329800000	RS F10 8R OUT 24VDC	C.18

8330000000

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8335900250	SIM S7/400 FB40 2.5M	C.9
8335900300	SIM S7/400 FB40 3.0M	C.9
8335900500	SIM S7/400 FB40 5.0M	C.9
8335910200	SIM S7/400 FB4*10 2.0M	C.9
8335910250	SIM S7/400 FB4*10 2.5M	C.9
8335910300	SIM S7/400 FB4*10 3.0M	C.9
8335910500	SIM S7/400 FB4*10 5.0M	C.9
8335910xxx	SIM S7/400 FB4*10 LM	C.5

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8428870000	RS F10 I/O8 LMZF	C.11
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8428870000	RS F10 I/O8 LMZF	C.6
8428880000	RS F40 I/O32 LMZF	C.11
8428890000	RS F10 INIT8 LD LMZF	C.14
8428900000	RS F40 INIT32 LD LMZF	C.15

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8430990000	RS F10 8RS OUT LMZF	C.19
8431000000	RS F40 32RS OUT LMZF	C.20
8433290200	SIM S7/300 FB40 2.0M	C.8
8433290250	SIM S7/300 FB40 2.5M	C.8
8433290300	SIM S7/300 FB40 3.0M	C.8
8433290500	SIM S7/300 FB40 5.0M	C.8
8433310200	SIM S7/300 FB4*10 2.0M	C.8
8433310250	SIM S7/300 FB4*10 2.5M	C.8
8433310300	SIM S7/300 FB4*10 3.0M	C.8
8433310500	SIM S7/300 FB4*10 5.0M	C.8
8433310xxx	SIM S7/300 FB4*10 LM	C.4

8530000000

8533640000	MRS 24Vdc 1CO	C.25
8533640000	MRS 24Vdc 1CO	C.4
8533640000	MRS 24Vdc 1CO	C.5
8533640000	MRS 24Vdc 1CO	C.6
8533660000	MRZ 24VDC 1CO	C.25
8533660000	MRZ 24VDC 1CO	C.4
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8537110000	RS F20 Z	A.6
8537130000	RS F34 Z	A.6
8537140000	RS F40 Z	A.6
8537150000	RS F50 Z	A.6
8537180000	RS F26 Z	A.6
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8537260000	RS SD9 SZ	A.11
8537320000	RS SD9 BZ	A.11
8537350000	RS SD50 SZ	A.11
8537370000	RS SD25 SZ	A.11
8537380000	RS SD25 BZ	A.11
8537390000	RS SD15 SZ	A.11
8537400000	RS SD15 BZ	A.11

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8555440000	RS RJ45 2WAY	A.15
8556020000	MRS 230Vac 1CO	C.25
8556030000	MRS 120Vuc 1CO	C.25
8556040000	MRS 48Vuc 1CO	C.25
8556050000	MRS 24Vuc 1CO	C.25
8556060000	MRS 60Vdc 1CO	C.25
8556060000	MRS 60Vdc 1CO	C.4
8556060000	MRS 60Vdc 1CO	C.5
8556070000	MRS 12Vdc 1CO	C.25
8556080000	MRS 5Vdc 1CO	C.25
8556080000	MRS 5Vdc 1CO	C.4
8556080000	MRS 5Vdc 1CO	C.5
8556090000	MRZ 230Vac 1CO	C.25
8556100000	MRZ 120Vuc 1CO	C.25
8556110000	MRZ 48Vuc 1CO	C.25
8556120000	MRZ 24Vuc 1CO	C.25
8556130000	MRZ 60Vdc 1CO	C.25
8556140000	MRZ 12Vdc 1CO	C.25
8556150000	MRZ 5Vdc 1CO	C.25

8570000000

8576340000	SSR 24V ACDC/24 VDC 2A	C.34
8576370000	SSR 24V ACDC/230VAC 2A	C.34

8590000000

8596060000	MRS 24Vdc 1CO 5uAu	C.6
8596080000	MRZ 24Vdc 1CO 5uAu	C.6

8600000000

8607340000	MOS 24Vdc / 24Vdc 0,1A	C.27
8607340000	MOS 24Vdc / 24Vdc 0,1A	C.4
8607340000	MOS 24Vdc / 24Vdc 0,1A	C.5
8607340000	MOS 24Vdc / 24Vdc 0,1A	C.6
8607350000	MOS 24Vdc / 24Vdc 2A	C.29
8607350000	MOS 24Vdc / 24Vdc 2A	C.4
8607350000	MOS 24Vdc / 24Vdc 2A	C.5
8607350000	MOS 24Vdc / 24Vdc 2A	C.6
8607360000	MOZ 24Vdc / 24Vdc 0,1A	C.27
8607360000	MOZ 24Vdc / 24Vdc 0,1A	C.4
8607360000	MOZ 24Vdc / 24Vdc 0,1A	C.5
8607360000	MOZ 24Vdc / 24Vdc 0,1A	C.6
8607370000	MOZ 24Vdc / 24Vdc 2A	C.29
8607370000	MOZ 24Vdc / 24Vdc 2A	C.4
8607370000	MOZ 24Vdc / 24Vdc 2A	C.5
8607370000	MOZ 24Vdc / 24Vdc 2A	C.6
8607690000	MOS 120Vuc / 24Vdc 0,1A	C.27
8607700000	MOS 120Vuc / 24Vdc 2A	C.29
8607710000	MOS 230Vac / 24Vdc 0,1A	C.27
8607720000	MOS 230Vac / 24Vdc 2A	C.29
8607730000	MOZ 120Vuc / 24Vdc 0,1A	C.27
8607740000	MOZ 120Vuc / 24Vdc 2A	C.29
8607750000	MOZ 230Vac / 24Vdc 0,1A	C.27
8607760000	MOZ 230Vac / 24Vdc 2A	C.29

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8611320000	RS RJ45	A.15

8630000000

8632990000	MOZ 5Vdc / 24Vdc 2A	C.29
8633000000	MOS 5Vdc / 24Vdc 2A	C.29
8633010000	MOZ 5Vdc / 24Vdc 0,1A	C.27
8633020000	MOS 5Vdc / 24Vdc 0,1A	C.27

8650000000

8651930000	MOS 120Vuc / 230VAC 1A	C.28
8651950000	MOZ 120Vuc / 230VAC 1A	C.28
8651970000	MOZ 230Vuc/ 230VAC 1A	C.28
8651990000	MOS 230Vuc/ 230Vac 1A	C.28
8652010000	MOS 24Vdc/ 230VAC 1A	C.28
8652020000	MOZ 24Vdc/ 230VAC 1A	C.28

8660000000

8660910000	MRZ 24VDC ACT	C.26
8660920000	MRS 24Vdc ACT	C.26

8670000000

8676230000	MOZ 24Vdc / 24Vdc ACT	C.30
8676250000	MOS 24Vdc / 24Vdc ACT	C.30

8690000000

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8770000000

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8773490000	MI8DI-Z SUB D15S	C.23
8773510000	MI8DI-S F10 S	C.23
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8773510000	MI8DI-S F10 S	C.6
8773530000	MI8DI-Z F10 S	C.23
8773530000	MI8DI-Z F10 S	C.4
8773530000	MI8DI-Z F10 S	C.5
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8773550000	MI8DO-S SUB D15S	C.23
8773570000	MI8DO-Z SUB D15S	C.23
8773600000	MI8DO-S F10 S	C.23
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8773600000	MI8DO-S F10 S	C.5
8773600000	MI8DO-S F10 S	C.6
8773620000	MI8DO-Z F10 S	C.23
8773620000	MI8DO-Z F10 S	C.4
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8825970000	MRS 120VUC 1CO RC	C.26
8825980000	MRZ 230VUC 1CO	C.26
8825990000	MRS 230VUC 1CO	C.26
8826000000	MXZ 24VDC 1CO BASIS	C.35
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9441860000	RS16ES-I RSV1,6/V	B.21
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9441870000	RS32ES-I RSV1,6/V	B.21
9441870000	RS32ES-I RSV1,6/V	B.36
9444610000	RSM 16-NV/1RT 24V(+/-)	B.42
9444610000	RSM 16-NV/1RT 24V(+/-)	B.45
9444660000	RSM16-NZ/1RT 24V (-/+)	B.42
9444660000	RSM16-NZ/1RT 24V (-/+)	B.45
9445000000	RSM8C-1RT H/V	B.42
9445000000	RSM8C-1RT H/V	B.43
9445060000	RSM12C-1RT H/V	B.42
9445060000	RSM12C-1RT H/V	B.44
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9445100000	RSM 16C-1RT H/V	B.46
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9445910000	RS32ES-L H/V	B.21
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9445930000	RS32ES-D-L H/V	B.21
9445930000	RS32ES-D-L H/V	B.32
9445950000	RS32ES-D-I-L H/V	B.21
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9445970000	RS32ES-T-L H/V	B.21
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9446910000	RS16EC-O-D 115Vuc H/V	B.39
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9446920000	RS16EC-O-D 230Vac H/V	B.41
9447000000	RSM8C-1RT H/Z	B.42
9447000000	RSM8C-1RT H/Z	B.43
9447100000	RSM16C-1RT H/Z	B.42
9447100000	RSM16C-1RT H/Z	B.46
9447120000	RSM16-1RT-Fu H/Z	B.42
9447120000	RSM16-1RT-Fu H/Z	B.50
9447160000	RSM16C-2RT H/Z	B.42
9447160000	RSM16C-2RT H/Z	B.48
9447200000	RSM32C-1RT H/Z	B.42
9447200000	RSM32C-1RT H/Z	B.52
9447700000	RS16ES H/Z	B.21
9447700000	RS16ES H/Z	B.24
9447710000	RS16ES-L H/Z	B.21
9447710000	RS16ES-L H/Z	B.24
9447730000	RS16ES-D-L H/Z	B.21
9447730000	RS16ES-D-L H/Z	B.25
9447750000	RS16ES-D-I-L H/Z	B.21
9447750000	RS16ES-D-I-L H/Z	B.25
9447770000	RS16ES-T-L H/Z	B.21
9447770000	RS16ES-T-L H/Z	B.26
9447900000	RS32ES H/Z	B.21
9447900000	RS32ES H/Z	B.30
9447910000	RS32ES-L H/Z	B.21
9447910000	RS32ES-L H/Z	B.30
9447930000	RS32ES-D-L H/Z	B.21
9447930000	RS32ES-D-L H/Z	B.32
9447950000	RS32ES-D-I-L H/Z	B.21
9447950000	RS32ES-D-I-L H/Z	B.33
9447970000	RS32ES-T-L H/Z	B.21
9447970000	RS32ES-T-L H/Z	B.35
9448000000	RS4ESA-DP SD/V	B.54
9448000000	RS4ESA-DP SD/V	B.55
9448010000	RS8ESA-DP SD/V	B.54
9448010000	RS8ESA-DP SD/V	B.56
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9448030000	RS8EA PREM/APR SD/V	B.54
9448030000	RS8EA PREM/APR SD/V	B.57
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9448040000	RS8E1SA MICRO SD/V	B.57
9448100000	RS4ESA/I-M-DP SD/V	B.54
9448100000	RS4ESA/I-M-DP SD/V	B.55
9448110000	RS8ESA/I-M-DP SD/V	B.54
9448110000	RS8ESA/I-M-DP SD/V	B.56
9448120000	RS16ESA/I-M-DP SD/V	B.54
9448120000	RS16ESA/I-M-DP SD/V	B.58
9449110000	RS8ESA/I-M-DP SD/Z	B.54
9449110000	RS8ESA/I-M-DP SD/Z	B.56
9449120000	RS16AIO/I-M-DP SD/Z	B.54
9449120000	RS16AIO/I-M-DP SD/Z	B.58

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- Optocouplers

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- PLC Interfaces – H-, R and S-System
- Byte Precabling Solution

CD PLC Selection Guide

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- I/O card selection
- Displays all interface modules and the compatible cable
- Displays the technical data for the selected interface module and ribbon cable

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- Cable Glands
- Cabtite (Cable Entry System)

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- Stripping
- Crimping
- Screwdrivers
- Automatic Machines
- Ferrules

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- Terminal Markers
- Wire and Cable Markers
- Device and Equipment Markers
- Printing Systems and Software

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- SAI Universal
- SAI ASI
- Cables and Connectors
- JACKPAC® IP67
- SteadyTEC®
- IE Connectors
- Accessories

Catalog 9:
Industrial Ethernet

- Unmanaged Switches
- Managed Switches
- Routers
- Media Converters

Catalog 10:
Connectivity Solutions Catalog

- Short Form Catalog
- Product Overview

Catalog 11:
Power Delivery and Protection Solutions

- Cutting
- Power Supplies
- DC/DC Converters
- Battery Back-up Units
- Diodes andOvervoltage Protection

Catalog 12:
Wireless Connectivity Solutions

- Wireless Ethernet
- Wireless Gateways
- Wireless Transceivers
- Antennas and Accessories

CD ROM

- Pdf files of All Master Catalogs, Brochures, Datasheets

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Weidmüller positions itself worldwide successfully on a sustained basis as the leading provider of solutions for electrical connectivity, transmission and conditioning of power, signal and data in industrial environments.

The company develops, produces and sells products in the field of electrical connectivity and electronics all over the world. Via a global network of application specialists Weidmüller offers engineering services and develops application specific solutions.

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