

# SCHMERSAL Tech Briefs:

## SRB-E Electronic Safety Controllers



### Features



Removable terminal blocks with customizable coding strips



Snap-in blank equipment label allows individual project and device identification.

### Overview

The PROTECT SRB-E is a series of multifunctional, configurable, electronic safety controllers. The series variants include

- modules with safe PNP outputs,
- monitoring of two-hand controls,
- input expansion up to Cat.4/PLe
- multi-evaluation of up to 4 safety guards up to Cat.4/PLe
- high 5.5A PNP switching capacity
- fast cycle times (60 switching cycles/min)

Each module can be adjusted to one of up to 11 preset configurations which include selecting the type of reset, activating or deactivating cross-wire monitoring, and selecting the monitored contact configuration – all via a rotary dial on the front. Once changed to the desired setting, the dials are protected from further adjustment by a transparent front cover which can be easily secured.

The PROTECT SRB-E series is distinguished by very short response times and detailed diagnostic and status reports via LED displays. The housings are compact and feature removable terminal blocks with customizable coding strips.

The drastically reduced number of versions and a clear overview of their relevant functions make it considerably easier for a machine manufacturer to select a module from this series which is right for their particular application. All conventional safety sensors and electromechanical safety equipment can be monitored. The safety relay modules of the PROTECT SRB-E series can be used in applications up to Category 4, PLe in accordance with ISO 13849 and SIL 3 in accordance to IEC 61508.

### Secured settings

The front of each model features a clear protective cover, allowing the setting dials and LED display on the front to be seen. Lifting this cover accesses the dials which select the preset configurations.

Once set, further adjustment of the dials can be prevented by securing the cover with the security seal provided (inset). Each security seal has a unique ID number.



### Available Models

#### SRB-E-201LC

- 2 safe PNP outputs
- 1 auxilliary PNP output
- Guard door interlocks
- Coded magnet reed sensors
- E-STOP
- Emergency Cable Pull
- Light Curtains
- Electronic OSSD (RSS/CSS)

#### SRB-E-201ST

- 2 safe PNP outputs
- 1 auxilliary PNP output
- Two-hand Controls
- Guard door interlocks
- Coded magnet reed sensors
- E-STOP
- Emergency Cable Pull
- Light Curtains
- Electronic OSSD (RSS/CSS)

#### SRB-E-204ST

- 2 safe PNP outputs
- 4 auxilliary PNP output
- Multi-evaluation of up to 4 safety guards
- Guard door interlocks
- Coded magnet reed sensors
- E-STOP
- Emergency Cable Pull
- Light Curtains
- Electronic OSSD (RSS/CSS)

#### SRB-E-204PE

- 2 safe PNP outputs
- 4 auxilliary PNP output
- Input expansion (up to PLe)
- Guard door interlocks
- Coded magnet reed sensors
- E-STOP
- Emergency Cable Pull
- Light Curtains
- Electronic OSSD (RSS/CSS)

#### ACC-SRB-LSL-MIC

- Spare security seal for SRB-E

### Available Literature



SRB-E Brochure  
10 pages

### Contact

#### Schmersal USA

660 White Plains Road  
Suite 160  
Tarrytown, NY 10591  
Tel: 914-347-4775  
Fax: 914-347-1567  
E-mail: salesusa@schmersal.com

#### Schmersal Canada

15 Regan Road  
Unit # 3  
Brampton, ON L7A 1E3  
Tel: 905-495-7540  
Fax: 905-495-7543  
E-Mail: salescanada@schmersal.com