

# SCHMERSAL Tech Briefs:

## SRB-E Electronic Safety Controllers



### Features



Removable terminal blocks with plug-in positional coding



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,
- monitored 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)
- cascading series connections of safe outputs

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 provides a higher level of diagnostic capabilities with LEDs for both controller status as well as error fault codes, thus assisting with troubleshooting safety circuits.

The reduced number of versions and a clear overview of their functions, make it considerably easier for a machine manufacturer to select a module from this series to standardize on for multiple applications. The ability for each controller to handle many types of conventional and electronic safety switches makes this a desirable safety controller series. 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, tamper resistance in dial adjustments may be accomplished by securing the cover with the security seal provided (inset). Each seal has a unique ID number.

**ACC-SRB-LSL-MIC**



### Available Models

#### SRB-E-201LC

- 2 safe PNP outputs
- 1 auxiliary PNP output

#### SRB-E-201ST

- 2 safe PNP outputs
- 1 auxiliary PNP output
- Two-hand Controls option

#### SRB-E-301MC

- 3 safe relay outputs
- 1 auxiliary relay output

#### SRB-E-301ST

- 3 safe relay outputs
- 1 auxiliary relay output

#### SRB-E-212ST

- 2 safe relay outputs
- 1 delayed safe PNP output
- 2 auxiliary PNP output

#### SRB-E-232ST

- 2 safe PNP outputs
- 3 delayed safe relay outputs
- 1 auxiliary relay output
- 1 auxiliary PNP output

#### SRB-E-322ST

- 3 safe relay outputs
- 2 delayed safe PNP outputs
- 1 auxiliary relay output
- 1 auxiliary PNP output

#### SRB-E-204ST

- 2 safe PNP outputs
- 4 auxiliary PNP output
- Monitored input expansion

#### SRB-E-402ST

- 2 safe relay outputs
- 2 safe PNP outputs
- 1 auxiliary relay output
- 1 auxiliary PNP output
- Monitoring of 2 separate functions

#### SRB-E-204PE

- Input expansion module
- Cascade multiple units
- 4 auxiliary PNP output

### Available Literature



SRB-E Brochure  
10 pages

### Contact

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