

# Safety Relay

## Basic Module

# SR4B3B01S

Part Number



- Circuit diagram directly on the housing
- Clear terminal assignment thanks to coding pins
- Installation width just 22,5 mm
- Optional cross-circuit monitoring

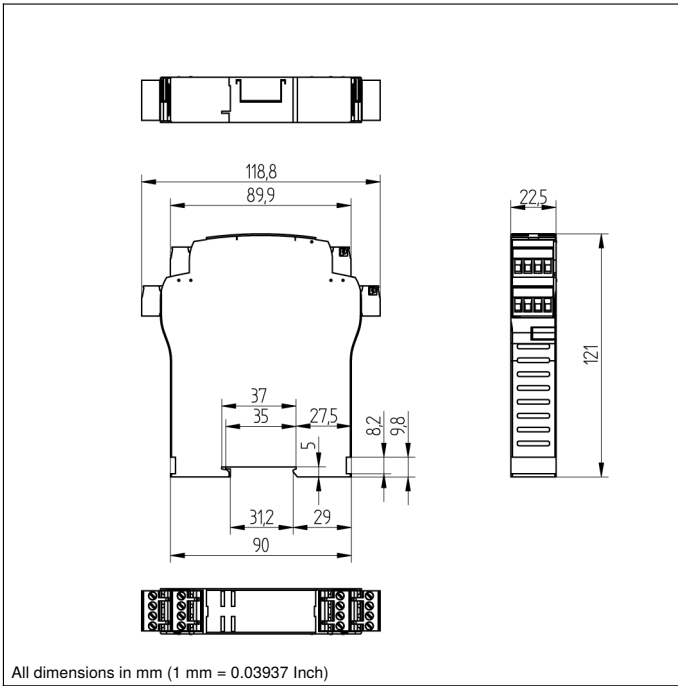
The safety relay monitors emergency stop switches, safety switches and AOPDs. In spite of its installation width spanning just 22,5 mm, it offers space for switching status displays and attaching an operating equipment label.

## Technical Data

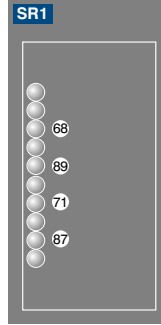
Electrical Data	
Supply Voltage	20,4...28,8 V DC
Supply Voltage	20,4...26,4 V AC
Input wiring	1-, 2-channel
Response time (automatic start)	100 ms
Response time (monitored start)	15 ms
Fall time (emergency stop)	< 32 ms
Temperature Range	-25...60 °C
Storage temperature	-40...85 °C
Number of Safety Outputs stop 0	3
Switching current safety output (250 V AC)	8 A
Number of auxiliary outputs	1
Switching current auxiliary output (24 V DC)	2 A
Mechanical Data	
Housing Material	Plastic
Degree of Protection	IP20
Connection	Screw Clamp (pluggable)
Clampable Wire Cross-Section	0,2...2,5 mm <sup>2</sup>
DIN-Rail mounting	35 mm
Safety-relevant Data	
Performance Level (EN ISO 13849-1), Stop 0	up to Cat. 4 PL e
Mission Time TM (EN ISO 13849-1)	20 a
Safety integrity level (EN 61508) Stop 0	up to SIL 3
Stop Category (EN 60204-1)	0
B10d Switching Cycles (mechanical)	20 000 000
B10d Switching Cycles (40 % load)	7 500 000
B10d Switching Cycles (60 % load)	2 500 000
B10d Switching Cycles (80 % load)	1 000 000
B10d Switching Cycles (100 % load)	400 000
Function	
Cross-circuit detection	optional
Start, monitored	yes
Start, automatically	yes
Contactors Monitoring	yes
Input signal NC	yes
Input signal OSSD	yes
Connection Table No.	<b>19</b>
Control Panel No.	<b>SR1</b>

## Complementary Products

Safety Relay SR4E4D01S  
Software



### Ctrl. Panel



- 47 = Cross wire monitoring
- 68 = Supply Voltage Indicator
- 71 = Channel 1
- 87 = Channel 2
- 89 = Internal operating voltage