

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 ²
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
Contactor Monitoring	yes
Input signal NC	yes
Input signal OSSD	yes

Connection Table No.

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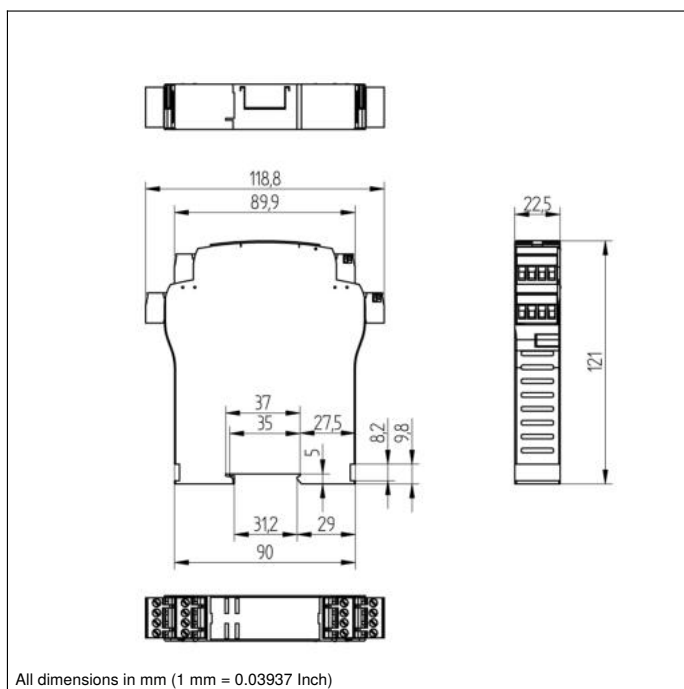
Control Panel No.

SR1

Complementary Products

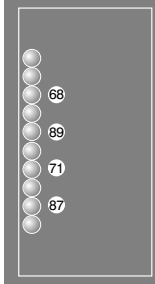
Safety Relay SR4E4D01S

Software



Ctrl. Panel

SR1



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