

Safety Relay

Basic Module

SR4D3B01S

Part Number



- 0,1...30 s off delay
- 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)	120 ms
Response time (monitored start)	25 ms
Fall time (emergency stop)	< 20 ms
Off-Delay	0,1...30 s
Temperature Range	-25...60 °C
Storage temperature	-40...85 °C
Number of Safety Outputs stop 0	2
Number of Safety Outputs stop 1	1
Switching current safety output (250 V AC)	8 A
Number of Signal Outputs	1
Switching current signal output (24 V DC)	100 mA

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
Performance Level (EN ISO 13849-1), Stop 1	up to Cat. 3 PL d
Mission Time TM (EN ISO 13849-1)	20 a
Safety integrity level (EN 61508) Stop 0	up to SIL 3
Safety integrity level (EN 61508) Stop 1	up to SIL 2
Stop Category (EN 60204-1)	0 / 1
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

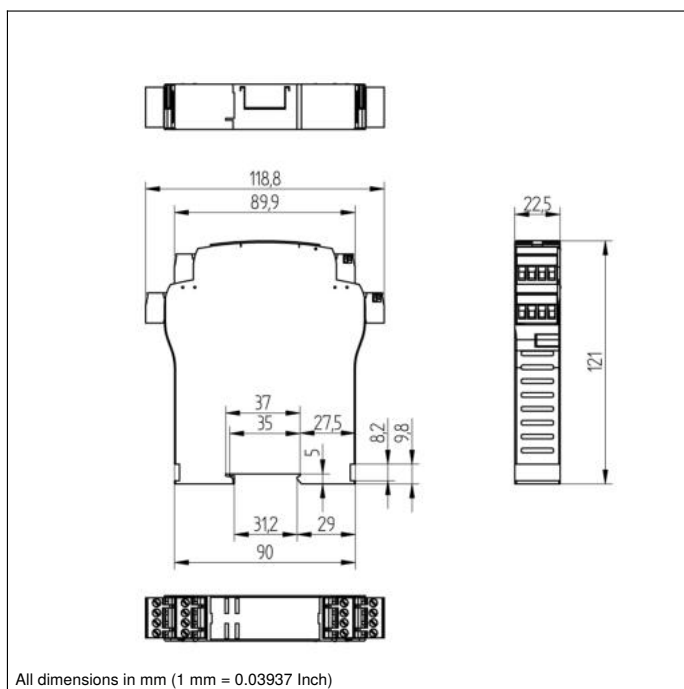
Function

Cross-circuit detection	optional
Start, monitored	yes
Start, automatically	yes
Contactor Monitoring	yes
Input signal NC	yes
Input signal OSSD	yes

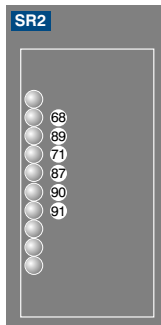
Connection Table No.	20
Control Panel No.	SR2

Complementary Products

Safety Relay SR4E4D01S
Software



Ctrl. Panel



- 68 = Supply Voltage Indicator
- 71 = Channel 1
- 87 = Channel 2
- 89 = Internal operating voltage
- 90 = Delayed release channel 3
- 91 = Delayed release channel 4