



Part no.: 547934
MSI-CM52B-02
Safety relay



Figure can vary

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- Electrical connection
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Part no.: 547934 – MSI-CM52B-02 – Safety relay

Technical data

Basic data	
Series	MSI-CM
Functions	
Functions	Contact extension for E-stop relays and two-hand control units
Restart	Automatic
Characteristic parameters	
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Performance Level (PL)	e, EN ISO 13849-1
MTTF _d	262 years, EN ISO 13849-1
PFH _D	0.000000001 per hour
PFH _D	1E-10 per hour
PFH _{D, nop} = 8766	0.00000000102 per hour
Mission time T _M	20 years, EN ISO 13849-1
Category	4, EN ISO 13849
STOP category	0, IEC/EN 60204-1
B10 _d at AC15 (inductive load)	230,000 number of cycles
Electrical data	
Protective circuit	Overvoltage protection
Connection	
Number of connections	1 Piece(s)
Connection 1	
Type of connection	Terminal
Function	Voltage supply Connection to device
Type of terminal	Spring-cage terminal
No. of pins	16 -pin
Cable properties	
Connection cross sections	1 x 0.2 to 2.5 mm ² , wire 1 x 0.2 to 2.5 mm ² , wire
Mechanical data	
Dimension (W x H x L)	22.5 mm x 99 mm x 114.5 mm
Housing material	Plastic, Unreinforced polyamide PA
Electrical contact material	AgSnO ₂ , gold flashed
Net weight	231 g
Housing color	Gray
Type of fastening	Snap-on mounting
Mechanical life time	100,000,000 switching cycles
Operation and display	
Type of display	LED
Number of LEDs	1 Piece(s)

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Environmental data

Ambient temperature, operation	-20 ... 55 °C
Ambient temperature, storage	-40 ... 70 °C

Certifications

Degree of protection	IP 20 (terminals) IP 40 (housing)
Certifications	c UL UL TÜV Rheinland

Classification

eCl@ss 8.0	27371819
eCl@ss 9.0	27371819
ETIM 5.0	EC001449

Electrical connection

Connection 1	
Type of connection	Terminal
Function	Voltage supply Connection to device
Type of terminal	Spring-cage terminal
No. of pins	16 -pin

Terminal	Assignment
A1	+24V
A2	GND
11	External device monitoring circuit (EDM)
12	External device monitoring circuit (EDM)
23	Release circuit
24	Release circuit
71	Signal contact IN
72	Signal contact IN
33	Release circuit
34	Release circuit
43	Release circuit
44	Release circuit
53	Release circuit
54	Release circuit
63	Release circuit
64	Release circuit

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Operation and display

LEDs

LED	Display	Meaning
1	Green, continuous light	Supply voltage on