



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



Figure can vary

## Contents

- Technical data
- Electrical connection
- Operation and display

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

## Technical data

<b>Basic data</b>	
Series	MSI-CM
<b>Functions</b>	
Functions	Contact extension for E-stop relays and two-hand control units
Restart	Automatic
<b>Characteristic parameters</b>	
SIL	3 , IEC 61508
SILCL	3 , IEC/EN 62061
Performance Level (PL)	e , EN ISO 13849-1
MTTF <sub>d</sub>	262 years , EN ISO 13849-1
PFH <sub>D</sub>	0.0000000001 per hour
PFH <sub>D</sub>	1E-10 per hour
PFH <sub>D</sub> , nop = 8766	0.00000000102 per hour
Mission time T <sub>M</sub>	20 years , EN ISO 13849-1
Category	4 , EN ISO 13849
STOP category	0 , IEC/EN 60204-1
B10 <sub>d</sub> at AC15 (inductive load)	230,000 number of cycles
<b>Electrical data</b>	
Protective circuit	Overvoltage protection
<b>Connection</b>	
Number of connections	1 Piece(s)
<b>Connection 1</b>	
Type of connection	Terminal
Function	Connection to device Voltage supply
Type of terminal	Spring-cage terminal
No. of pins	16 -pin
<b>Cable properties</b>	
Connection cross sections	1 x 0.2 to 2.5 mm <sup>2</sup> , wire 1 x 0.2 to 2.5 mm <sup>2</sup> , wire
<b>Mechanical data</b>	
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 <sub>2</sub> , gold flashed
Net weight	231 g
Housing color	Gray
Type of fastening	Snap-on mounting
Mechanical life time	100,000,000 actuation cycles
<b>Operation and display</b>	
Type of display	LED
Number of LEDs	1 Piece(s)

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

### 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 TÜV Rheinland UL

### Classification

Customs tariff number	85371098
eCl@ss 8.0	27371819
eCl@ss 9.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449

## Electrical connection

Connection 1	
Type of connection	Terminal
Function	Connection to device Voltage supply
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

## Operation and display

### LEDs

LED	Display	Meaning
1	Green, continuous light	Supply voltage on