

Technical data sheet

Safety relay

Part no.: 547933

MSI-CM52B-01

Contents

- Technical data
- Electrical connection
- Operation and display



Figure can vary



Technical data

Basic data

Series	MSI-CM
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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, 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
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Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Connection to device Voltage supply
Type of connection	Terminal
Type of terminal	Screw 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
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Mechanical data

Dimension (W x H x L)	22.5 mm x 99 mm x 114.5 mm
Housing material	Plastic
Plastic housing	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 actuation cycles

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

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 5.1.4	27371800
eCl@ss 8.0	27371819
eCl@ss 9.0	27371819
eCl@ss 10.0	27371819
eCl@ss 11.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449

Electrical connection

Connection 1

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

Pin Pin assignment

	A1
1	+24V
	A2
2	GND
	11
3	External device monitoring circuit (EDM)
	12
4	External device monitoring circuit (EDM)
	23
5	Release circuit

Electrical connection

Pin	Pin assignment
	24
6	Release circuit
	71
7	Signal contact IN
	72
8	Signal contact IN
	33
9	Release circuit
	34
10	Release circuit
	43
11	Release circuit
	44
12	Release circuit
	53
13	Release circuit
	54
14	Release circuit
	63
15	Release circuit
	64
16	Release circuit

Operation and display

LED	Display	Meaning
1	Green, continuous light	Supply voltage on