



Part no.: 547935
MSI-DT30B-01
Safety relay



Figure can vary

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Part no.: 547935 – MSI-DT30B-01 – Safety relay

Technical data

Basic data	
Series	MSI-DT
Functions	
Functions	Start/restart interlock (RES), selectable Time-delayed shutdown (STOP1) Cross circuit monitoring One- or two-channel operation
Restart	Manual Automatic
Characteristic parameters	
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Performance Level (PL)	e, EN ISO 13849-1
MTTF _d	124 years, EN ISO 13849-1
PFH _D	0.000000018 per hour
PFH _D	1,8E-09 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 DC13 (inductive load)	400,000 number of cycles
B10 _d at AC15 (inductive load)	400,000 number of cycles
Electrical data	
Protective circuit	Short circuit protected
Connection	
Number of connections	1 Piece(s)
Connection 1	
Type of connection	Terminal
Function	Connection to device Voltage supply
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
Mechanical data	
Dimension (W x H x L)	22.5 mm x 99 mm x 114.5 mm
Housing material	Plastic, Unreinforced polyamide PA
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

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Number of LEDs	3 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	TÜV Rheinland c UL US

Classification

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

Electrical connection

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

Terminal	Assignment
A1	+24V
S35	Start circuit
S34	Start circuit
A2	GND
S11	Sensor input 1
S12	Sensor input 1
S21	Sensor input 2
S22	Sensor input 2
13	1 release circuit, undelayed
14	1 release circuit, undelayed
23	2 release circuit, undelayed
24	2 release circuit, undelayed
37	Release circuit 1, delayed
38	Release circuit 1, delayed
47	Release circuit 2, delayed
48	Release circuit 2, delayed

Operation and display

LEDs

Display LED 1	Display LED 2	Display LED 3	Meaning
Green, continuous light	Off	Off	Operational readiness
Green, continuous light	Green, continuous light	Green, continuous light	Device is active. Release circuits are closed.
Green, quickly flashing	Off	Off	Operational readiness
Green, slowly flashing	Off	Off	Operational readiness
Green, slowly flashing	Green, slowly flashing	Off	Configuration error - repeat the configuration! If this cannot be performed: check the wiring and power supply!
Green, slowly flashing	Green, slowly flashing	Green, slowly flashing	Configuration necessary - positioner for delay time was readjusted. Configure again!