



Part no.: 50133019
MSI-SR-2H1-03
Safety relay



Figure can vary

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Part no.: 50133019 – MSI-SR-2H1-03 – Safety relay

Technical data

Basic data	
Series	MSI-SR-2H1
Application	Evaluation unit for two-hand control devices
Characteristic parameters	
SIL	3 , IEC 61508
SILCL	3 , IEC/EN 62061
Performance Level (PL)	c , EN ISO 13849-1
PFH _D	0.0000021 per hour
PFH _D	2,1E-06 per hour
Mission time T _M	20 years , EN ISO 13849-1
Category	1 , EN ISO 13849
Electrical data	
Supply circuit	
Nominal voltage U _N	24 V AC/DC
Nominal frequency	50 ... 60 Hz
Rated power AC	2 V·A
Rated power DC	0.7 W
Galvanic isolation between supply and control circuit	Yes (when U _N ≥, AC 115-230 V)
Output circuit	
Release current paths	Changeover
Contact material	Ag alloy
Usage category AC-15 (NO contact)	Ue 230V, Ie 3A
Usage category DC-13 (NO contact)	Ue 24V, Ie 2A
Short circuit protection (NO contact)	gG class safety fuse 6A, melting integral
Nominal switching voltage, release current paths AC	230 V
Max. thermal continuous current I _{th} , release current paths	6 A
Mechanical life time	100,000,000 switching cycles
Control circuit	
Nominal output voltage DC	24 V
Input current at the control inputs (safety circuit/reset circuit)	2.5 mA
Max. peak current at the control inputs (safety circuit/reset circuit)	3 mA
Max. cable resistance, per channel	≤ (5 + (1.176 × U _B / U _N - 1) × 100) Ω
Response time (automatic start t _{A2})	20 ms
Response time (manual start t _{A1})	20 ms
Release time t _R	20 ms
Synchronous time monitoring t _S	500 ms
Recovery time t _W	250 ms
Connection	
Number of connections	1 Piece(s)

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Connection 1

Type of connection	Terminal
Function	Signal IN Signal OUT Voltage supply
Type of terminal	Spring-cage terminal
No. of pins	9 -pin

Cable properties

Connection cross sections	2 x 0.2 to 1.5 mm ² , wire 2 x 0.2 to 1.5 mm ² , wire 2 x 0.25 to 1.5 mm ² , wire with wire-end sleeve
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Mechanical data

Dimension (W x H x L)	22.5 mm x 106.5 mm x 91.5 mm
Net weight	100 g
Housing color	Gray
Type of fastening	Snap-on mounting

Certifications

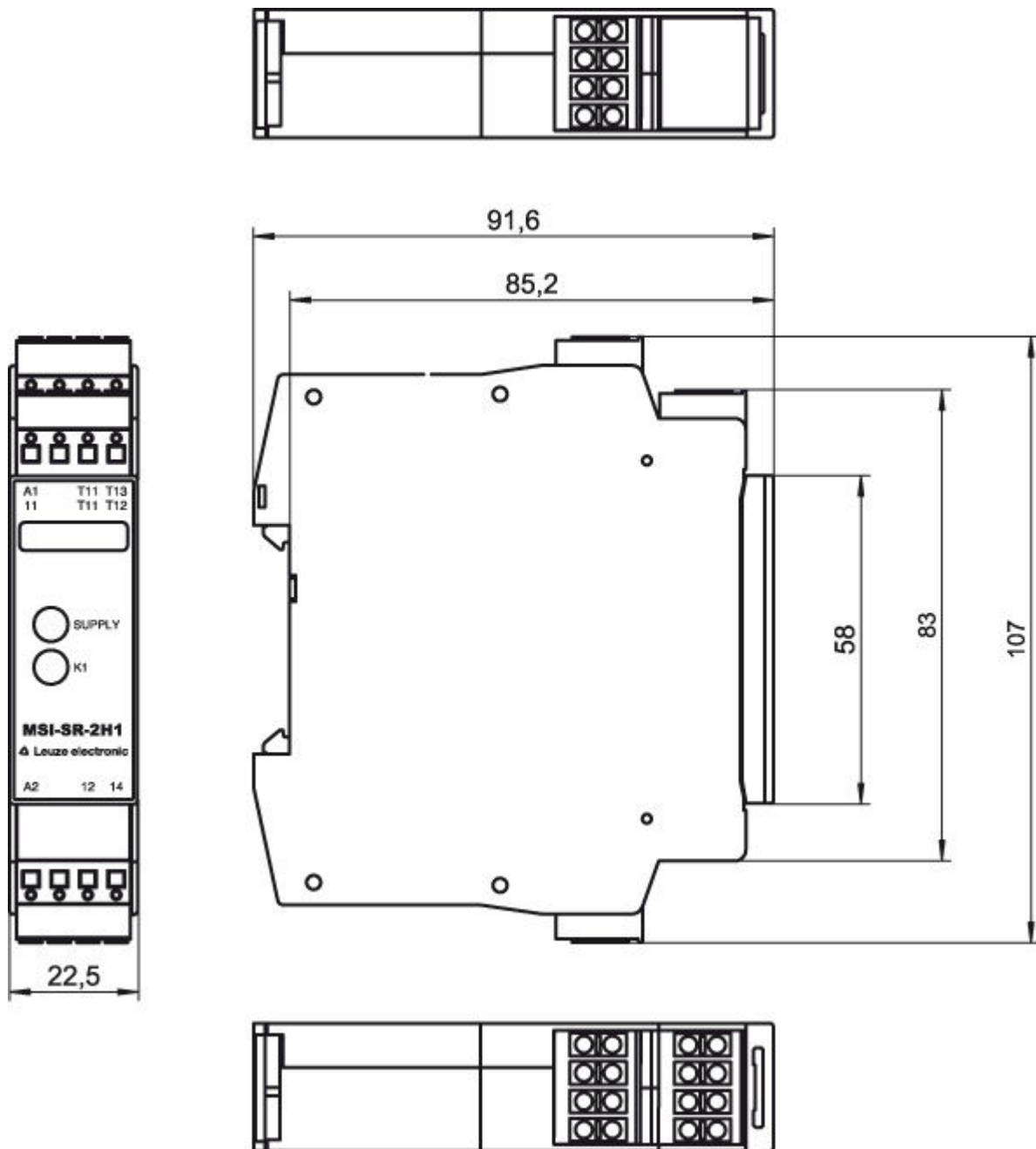
Certifications	c UL US TÜV Rheinland
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Classification

Customs tariff number	85364900
eCl@ss 8.0	27371819
eCl@ss 9.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449

Dimensioned drawings

All dimensions in millimeters



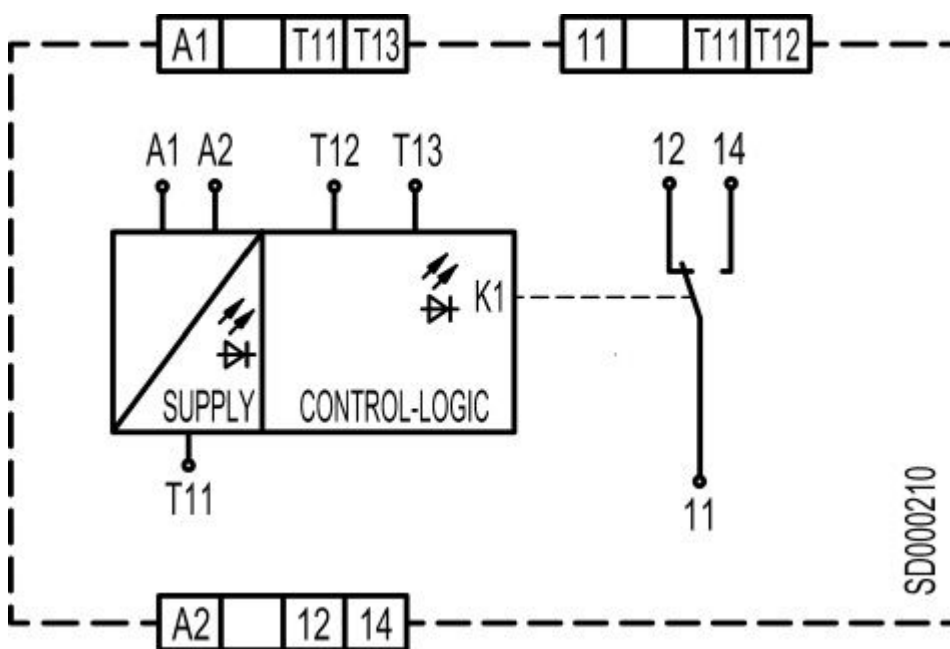
Electrical connection

Connection 1	
Type of connection	Terminal
Function	Signal IN Signal OUT Voltage supply
Type of terminal	Spring-cage terminal
No. of pins	9 -pin

Terminal	Assignment
11	Release/signaling current path

Terminal	Assignment
12	Release/signaling current path
14	Release/signaling current path
A1	+24V
A2	GND
T11	Control circuit of two-hand button
T11	Control circuit of two-hand button
T12	Control circuit of two-hand button
T13	Control circuit of two-hand button

Circuit diagrams



Notes

Observe intended use!

- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.