

## Technical data sheet

### Safe input module

Part no.: 50132992

MSI-EM-I8-01

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For illustration purposes only



## Technical data

### Basic data

Series	MSI-EM
Type	Safe input module
Application	Monitoring of safety functions
Number of safe I/Os	8 IN

### Functions

Functions	Extension module for the MSI 400 configurable safety control Extension with 8 safe inputs
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### Characteristic parameters

SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Performance Level (PL)	e, EN ISO 13849-1
PFH <sub>D</sub>	5,68E-09 per hour
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1
Category	4, EN ISO 13849

### Electrical data

<b>Performance data</b>	
Power consumption, max.	1.4 W
<b>Output circuit</b>	
<b>Control circuit</b>	
Number of inputs	8 Piece(s)
Voltage permitted at the input	30 V
Input current at signal 1	8 mA

### Interface

Type	Internal bus (SBUS+)
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### Connection

Number of connections	1 Piece(s)
<b>Connection 1</b>	
Function	Signal IN
Type of connection	Terminal
Type of terminal	Screw 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 1 x 0.25 to 2.5 mm <sup>2</sup> , wire with wire-end sleeve 2 x 0.2 to 1.0 mm <sup>2</sup> , wire 2 x 0.2 to 1.0 mm <sup>2</sup> , wire 2 x 0.25 to 1.0 mm <sup>2</sup> , wire with wire-end sleeve

### Mechanical data

Dimension (W x H x L)	22.5 mm x 96.5 mm x 120.8 mm
Net weight	150 g
Housing color	Gray
Type of fastening	Snap-on mounting

### Environmental data

Ambient temperature, operation	-25 ... 65 °C
Ambient temperature, storage	-25 ... 70 °C
Relative humidity (non-condensing)	10 ... 95 %

### Certifications

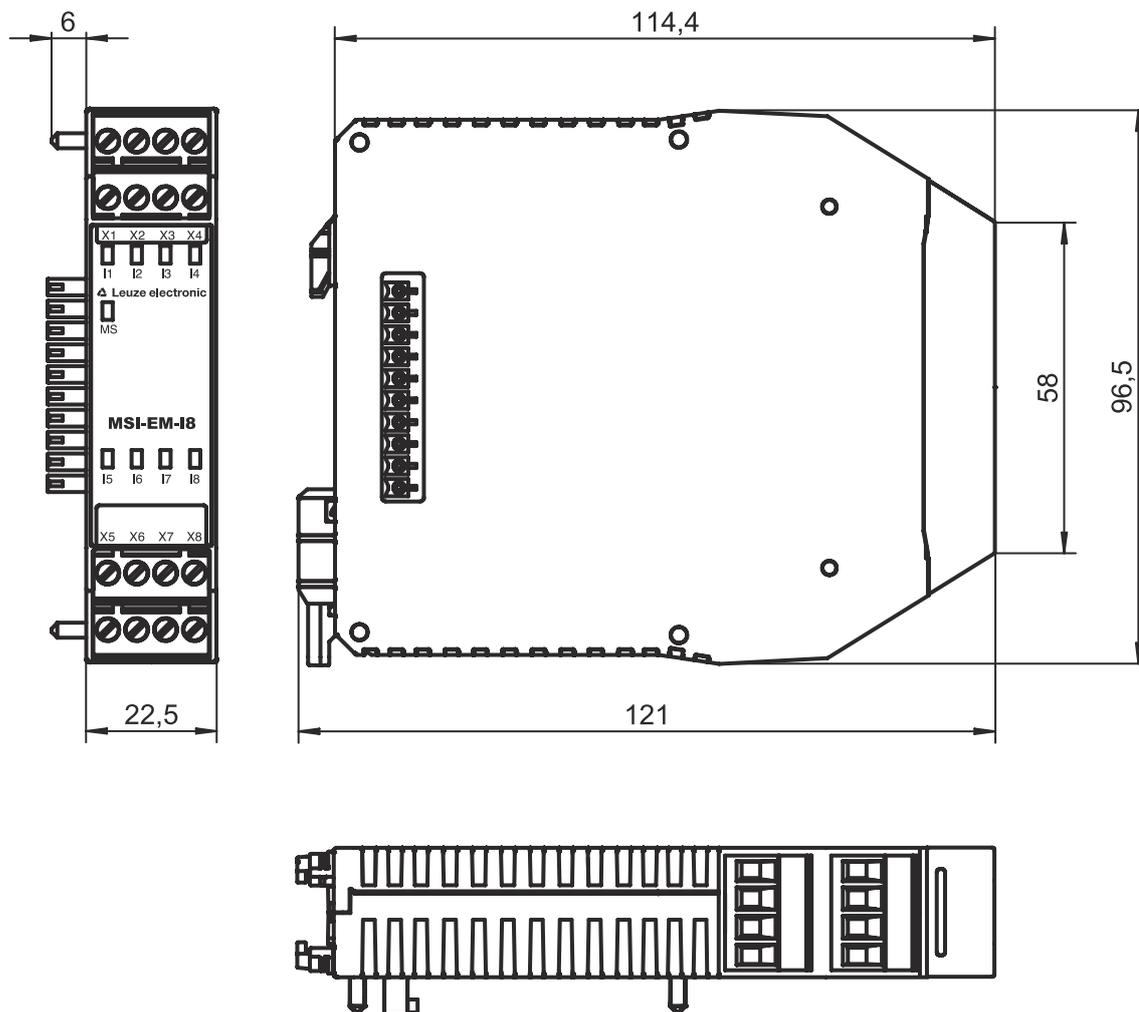
Degree of protection	IP 20 (terminals) IP 40 (housing)
Protection class	III
Approvals	c UL US TÜV Rheinland
Vibration resistance	5 ... 500 Hz
Test procedure for oscillation in accordance with standard	EN 60068-2-6
Shock resistance, single shock	30 g, 11 ms, EN 60068-2-27
Shock resistance, continuous shock	10 g, 16 ms, EN 60068-2-29

### Classification

Customs tariff number	85364900
ECLASS 5.1.4	27242204
ECLASS 8.0	27242204
ECLASS 9.0	27242204
ECLASS 10.0	27242204
ECLASS 11.0	27242204
ECLASS 12.0	27242204
ECLASS 13.0	27242204
ECLASS 14.0	27242204
ECLASS 15.0	27242204
ECLASS 16.0	27242204
ETIM 5.0	EC001419
ETIM 6.0	EC001419
ETIM 7.0	EC001419
ETIM 8.0	EC001419
ETIM 9.0	EC001419
ETIM 10.0	EC001419

# Dimensioned drawings

All dimensions in millimeters



## Electrical connection

### Connection 1

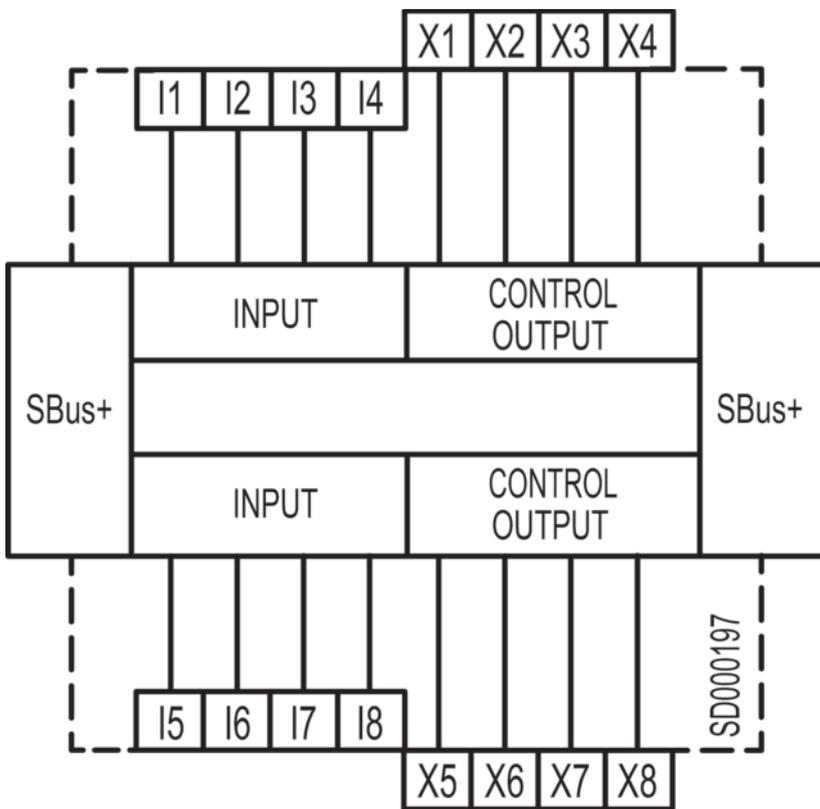
Function	Signal IN
Type of connection	Terminal
Type of terminal	Screw terminal
No. of pins	16 -pin

Terminal	Assignment
I1	Safe input
I2	Safe input
I3	Safe input
I4	Safe input
I5	Safe input
I6	Safe input
I7	Safe input
I8	Safe input

# Electrical connection

Terminal	Assignment
X1	Test signal output (test signal 1)
X2	Test signal output (test signal 2)
X3	Test signal output (test signal 1)
X4	Test signal output (test signal 2)
X5	Test signal output (test signal 1)
X6	Test signal output (test signal 2)
X7	Test signal output (test signal 1)
X8	Test signal output (test signal 2)

## 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.