

**ITEM 122721 MSC-CE-SPM1TB-122721**

Description	Technical data	Accessories	Downloads
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**Features**

- › Input expansion
- › 2 inputs for proximity switch
- › 1 input for TTL encoder
- › Compact housing with width of only 22.5mm
- › Straightforward diagnostics via LED displays
- › Plug-in screw terminals

**Approvals**



**Mechanical values and environment**

Dimensions	108 x 22.5 x 114.5 [1]
Material	Housing Polyamide

Ambient temperature	-10 ... +55 °C
Atmospheric humidity	10 ... 95 % rH
Degree of protection	IP20
Mounting method	Mounting rail 35mm [2]
	<b>Proximity switch</b>
Number of axes	2
Connection	2 Plug-in terminal [3]
	<b>Encoder</b>
Number of axes	1
Connection	1 RJ45

### Electrical connection ratings

Operating voltage DC	UB	24 V DC -20% ... +20% PELV [4]
Overvoltage category according to IEC EN 60664-1		II
Degree of contamination according to EN 60664-1		2
Connection cross-section		0,5 ... 2,5 mm <sup>2</sup>
Delay time		0,0106 ... 0,0546 s [5]
Power consumption		max.3 W
		<b>Proximity switch</b>
Spacing limits		min.5 %
Number		2
Frequency		5 kHz
Frequency spacing		min.10 Hz
Limit range		1 Hz - 4 kHz [6]
Type of input		PNP / NPN -3/4-wires
		<b>Encoder</b>
Number		1
Frequency		500 kHz
Limit range		1 Hz - 450 kHz [7]
Rated surge voltage according to IEC 60664-1		4000
Rated insulation voltage U <sub>i</sub>		250

### Interface, bus

	<b>Encoder</b>
Schnittstelle_NT!	TTL

## Reliability values acc. to EN ISO 13849-1

Performance Level	PL e <sup>[8]</sup>
Category	4 <sup>[9]</sup>
PFH <sub>D</sub>	7.82E-09 1/h <sup>[10]</sup>
Mission time	20 y <sup>[11]</sup>

[1] Including screw terminals

[2] Acc. to EN 60715

[3] Terminals not included

[4] Acc. to EN 60204-1

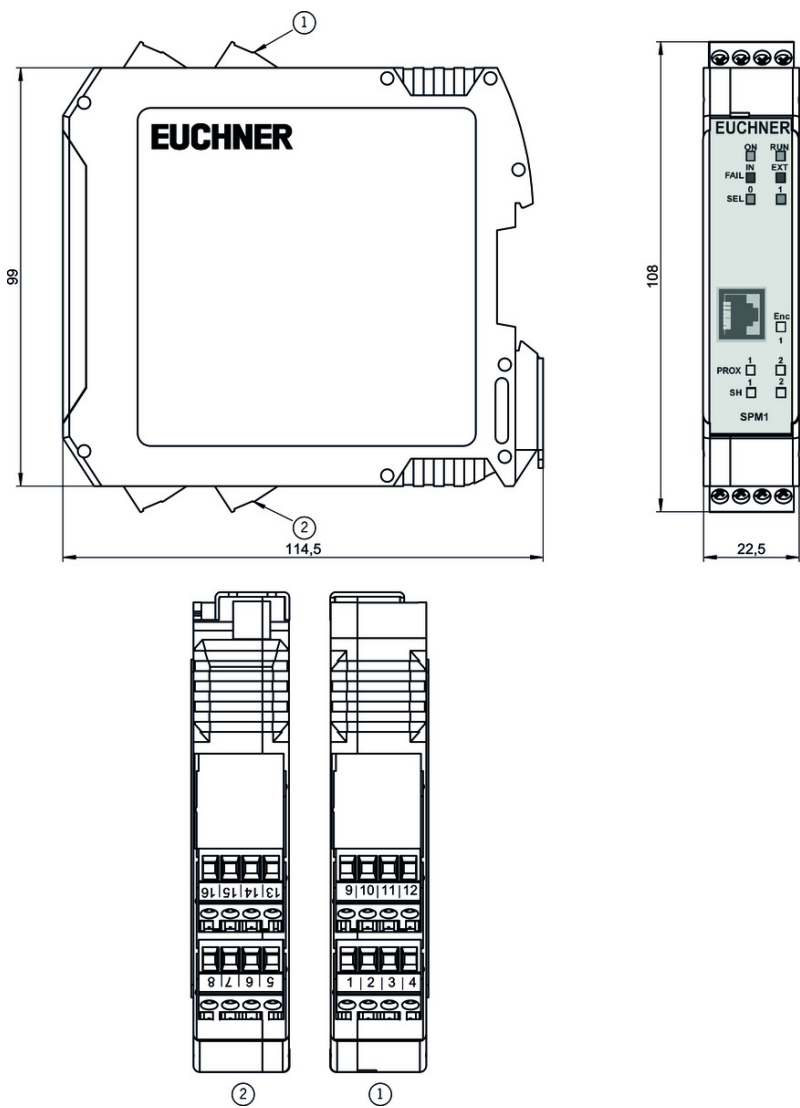
[5] depends on the number of slave modules, number of operators, number of OSSD outputs

[6, 7] Configurable

[8, 9, 11] According to ISO 13849-1:2008 / EN 62061:2005

[10] Acc. to IEC 61508:2010

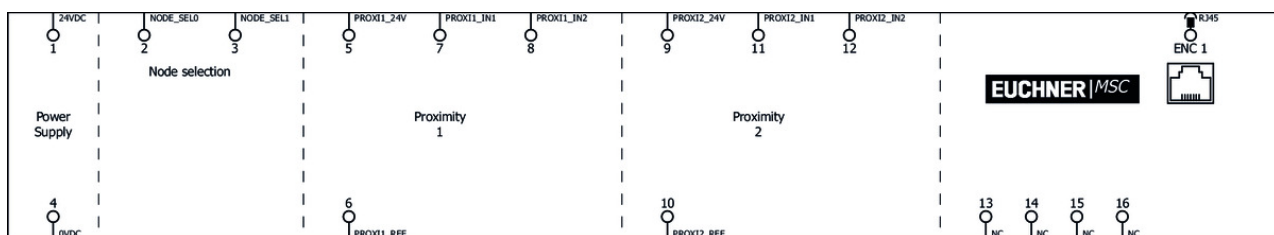
### Dimension drawing



### Legende

- 1 Page A
- 2 Page B

### Block diagram



### Connection material

- ▼ Terminal set 4 contacts, screw terminals



**121320** AC-SC-04-V04-121320

- ▼ Features
  - › Plug-in screw terminals

- ▼ Expansion connector, MSC



**121308** AC-PL-B-121308

- ▼ Connection cable with RJ45 plug connector, 5m



**122702** C-RJ45-8X014PU05,0-MA-122702

- ▼ Features
  - › RJ45 plug connector
  - › Straight plug connector
  - › PUR cable
  - › Cable length 5 m
  - › With flying lead

- ▼ Connection cable with RJ45 plug connector, 10m



**122703** C-RJ45-8X014PU10,0-MA-122703

- ▼ Features
  - › RJ45 plug connector
  - › Straight plug connector
  - › PUR cable
  - › Cable length 10 m
  - › With flying lead

- ▼ Connection cable with RJ45 plug connector, 20m



**122704** C-RJ45-8X014PU20,0-MA-122704

- ▼ Features
  - › RJ45 plug connector
  - › Straight plug connector
  - › PUR cable
  - › Cable length 20 m
  - › With flying lead

## Instructions

- ▼ TECHNISCHES DATENBLATT Erweiterungsmodule

Doc. no.    Version    Language    Download

TECHNISCHES DATENBLATT Erweiterungsmodule	121345	02-02/16		1.1 MB
DOCUMENTO TÉCNICO módulos de expansión				
FICHE TECHNIQUE modules d'extension				
FOGLIO TECNICO moduli di espansione				
TECHNICAL SHEET expansion units				

## Catalogs

### ▼ MSC-Erweiterungsmodule SPM0/SPM1/SPM2

	Doc. no.	Version	Language	Download
MSC-Erweiterungsmodule SPM0/SPM1/SPM2	126647	01-11/15		0.7 MB
MSC expansion modules SPM0/SPM1/SPM2				

### ▼ Módulos de ampliación para MSC SPM0/SPM1/SPM2

	Doc. no.	Version	Language	Download
Módulos de ampliación para MSC	126942	01-11/15		0.2 MB
SPM0/SPM1/SPM2				
Modules d'extension MSC SPM0/SPM1/SPM2				

### ▼ Einfach programmierbar - Die sichere Kleinststeuerung MSC Easily programmable - The small safe control system MSC Simplement programmable - L'automate de sécurité MSC Fácil de programar - El controlador seguro de tamaño reducido MSC 易于编程 - MSC小型安全控制系统

	Doc. no.	Version	Language	Download
Einfach programmierbar - Die sichere Kleinststeuerung MSC	121780	05-05/16		2.2 MB
Simplement programmable - L'automate de sécurité MSC	122111	05-05/16		2.2 MB
Fácil de programar - El controlador seguro de tamaño reducido MSC	122112	05-05/16		2.2 MB
Easily programmable - The small safe control system MSC	121888	05-05/16		2.2 MB
易于编程 - MSC小型安全控制系统	157058	05-05/16		2.7 MB