

ITEM 121304 MSC-CE-SPM2H-121304

Description	Technical data	Accessories	Downloads
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Features

- › Input expansion
- › 2 inputs for proximity switch
- › 2 inputs for HTL 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]
	Proximity switch
Number of axes	2
Connection	2 Plug-in terminal [3]
	Encoder
Number of axes	2
Connection	2 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 ²
Delay time		0,0106 ... 0,0546 s [5]
Power consumption		max.3 W
		Proximity switch
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
		Encoder
Number		1
Frequency		300 kHz
Limit range		1 Hz - 450 kHz [7]
Rated surge voltage according to IEC 60664-1		4000
Rated insulation voltage U _i		250

Interface, bus

	Encoder
Schnittstelle_NT!	HTL

Reliability values acc. to EN ISO 13849-1

Performance Level	PL e ^[8]
Category	4 ^[9]
PFH _D	7.42E-09 1/h ^[10]
Mission time	20 y ^[11]

[1] Including screw terminals

[2] Acc. to EN 60715

[3] Terminals not included

[4] Acc. to EN 60204-1

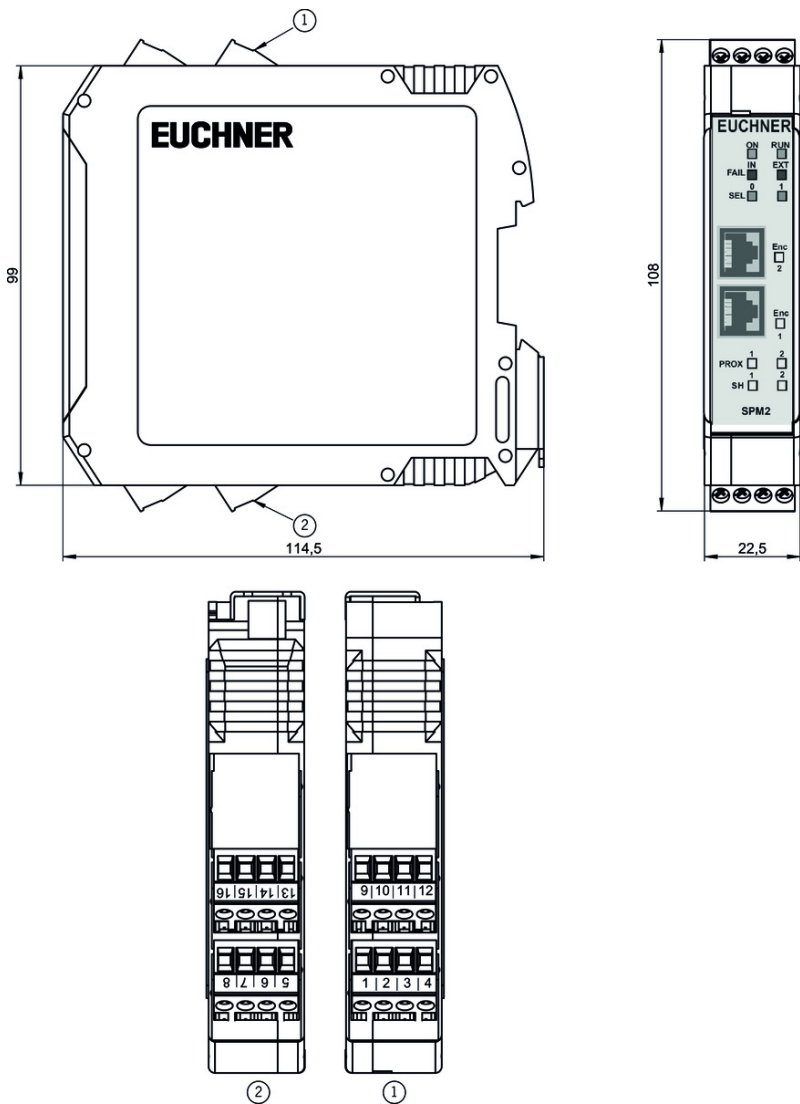
[5] depends on the number of slave modules, number of operators, number of OSSD outputs

[6, 7] Configurable

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

[10] Acc. to IEC 61508:2010

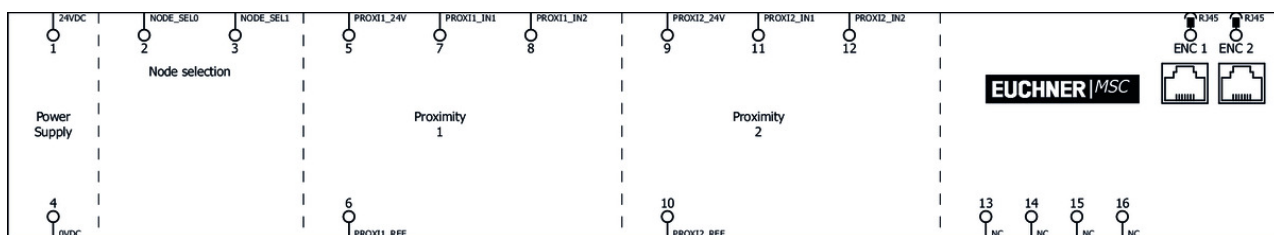
Dimension drawing



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

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Einfach programmierbar - Die sichere Kleinststeuerung MSC	121780	05-05/16		 2.2 MB
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Fácil de programar - El controlador seguro de tamaño reducido MSC	122112	05-05/16		 2.2 MB
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易于编程 - MSC小型安全控制系统	157058	05-05/16		 2.7 MB