

ITEM 121293 MSC-CE-FM4-121293

Description	Technical data	Accessories	Downloads
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Features

- › Input expansion
- › 4 pressure-sensitive mat inputs
- › 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]
Connection	Plug-in screw terminal [3]
Cable length	max.100 m [4]
	Pulse output 1...8
Number of outputs	8
	Safety input 1...12
Number of inputs	12
	For node selection
Number of inputs	2

Electrical connection ratings

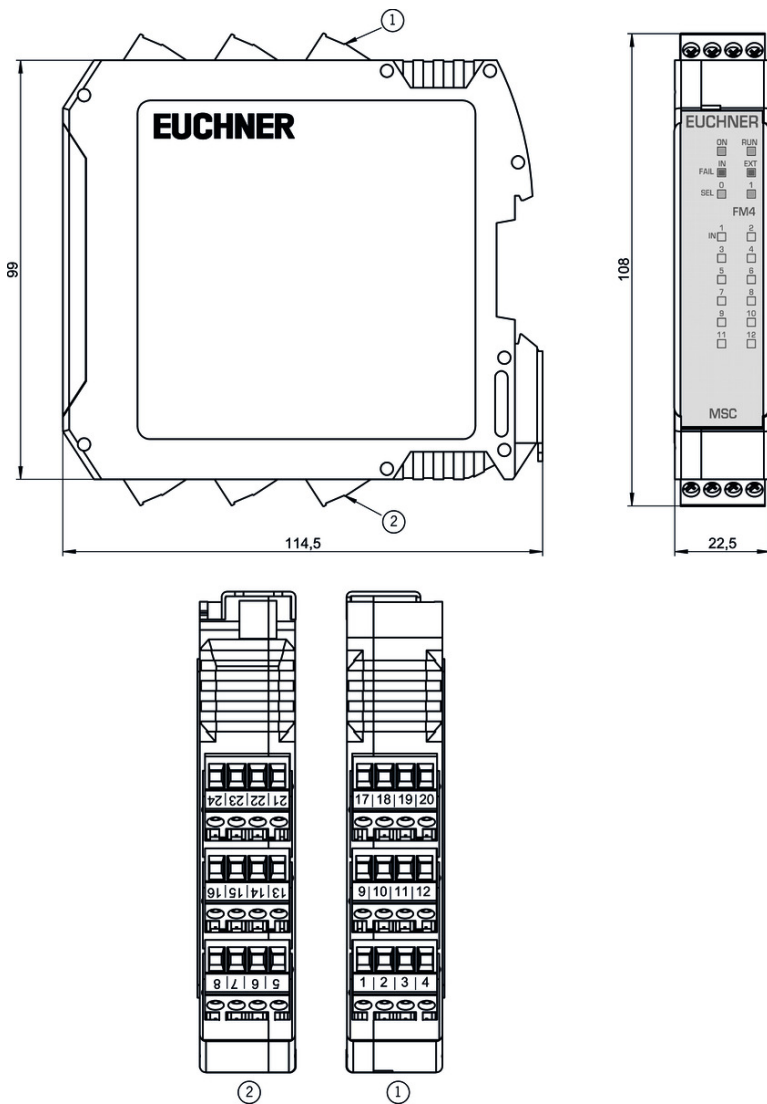
Operating voltage DC	UB 24 V DC -20% ... +20% PELV [5]
Overvoltage category according to IEC EN 60664-1	II
Degree of contamination according to EN 60664-1	2
Connection cross-section	0,5 ... 2,5 mm ²
Delay time	0,0106 ... 0,0546 s [6]
Power consumption	max.3 W
	Pulse output 1...8
Test pulses	0,2 ms
Type of output	Semiconductor outputs, p-switching [7]
	Safety input 1...12
Type of input	Semiconductor inputs, p-switching [8]
	For node selection
Type of input	Semiconductor inputs, p-switching [9]

Reliability values acc. to EN ISO 13849-1

ESPE type	4 [10]
Performance Level	PL e [11]
Category	4 [12]
PFH _D	5.56E-09 1/h [13]
SIL CL	3 [14]
Mission time	20 y [15]

- [1] Including screw terminals
- [2] Acc. to EN 60715
- [3] Terminals not included
- [4] With length above 50m use cross-section $>1\text{mm}^2$.
- [5] Acc. to EN 60204-1
- [6] Depending on the number of slave modules, operators and OSSD outputs. (See operating instructions and calculated values in the software "Euchner Safety Designer")
- [7, 8] Acc. to EN 61131-2
- [9] "Typ2" acc. to EN 61131-2
- [10] Acc. to EN 61496-1
- [11, 12, 15] Acc. to ISO 13849-1:2006/IEC 62061:2005
- [13] Acc. to IEC 61508:2010
- [14] Acc. to IEC 62061:2005

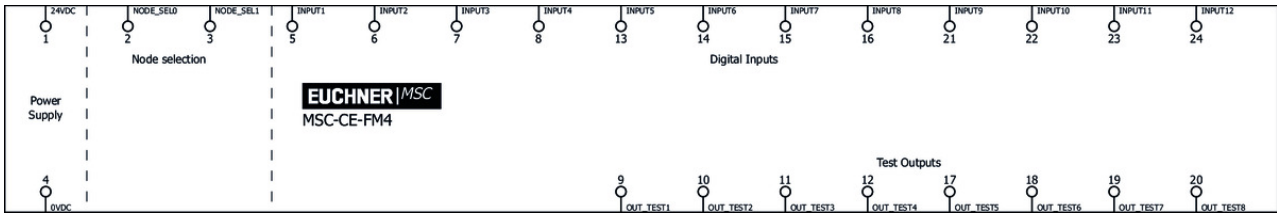
Dimension drawing



Legende

- 1 Page A
- 2 Page B

Block diagram



Connection material

- Terminal set 6 contacts, screw terminals



121321 AC-SC-04-V06-121321

- Features

- Plug-in screw terminals

- Expansion connector, MSC



121308 AC-PL-B-121308

Instructions

- MODULARE SICHERHEITSSTEUERUNG MSC Installation und Verwendung







	Doc. no.	Version	Language	Download
MODULARE SICHERHEITSSTEUERUNG MSC Installation und Verwendung	121331	03-05/16		5.9 MB
AUTOMATE INTÉGRÉ DE SÉCURITÉ MODULAIRE MSC Installation et utilisation	121331	03-05/16		6.2 MB
MODULAR SAFETY INTEGRATED CONTROLLER MSC Instalación y uso	121331	03-05/16		6.2 MB
MODULAR SAFETY INTEGRATED CONTROLLER MSC Installation and use	121331	03-05/16		6.2 MB
SISTEMA DI CONTROLLO MODULARE DI SICUREZZA MSC Installazione e uso	121331	03-05/16		6.1 MB

- MSC FM4 EINGANG-ERWEITERUNGSMODUL


	Doc. no.	Version	Language	Download
MSC FM4 EINGANG-ERWEITERUNGSMODUL MSC FM4 INPUT EXPANSION MODULE	121338	01-07/14	 	1.5 MB

- TECHNISCHES DATENBLATT Erweiterungsmodule

Doc. no.	Version	Language	Download
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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

-  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