

ITEM 121294 MSC-CE-AC-FO2-121294

Description	Technical data	Accessories	Downloads
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Features

- › Output expansion
- › 2 control inputs
- › 2 semiconductor outputs (PL e, category 4)
- › 2 door monitoring outputs
- › 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]
	Status (can be programmed via software)
Number of monitoring outputs	2
	External relay monitoring (EDM), automatic, manual operation
Number of inputs	2
	For node selection
Number of inputs	2
	Safety outputs OSSD1, OSSD2
Number of safety outputs	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
		Status (can be programmed via software)
Type of output		Semiconductor outputs, p-switching [7]
Output current		max.100 mA
		External relay monitoring (EDM), automatic, manual operation
Type of input		Semiconductor inputs, p-switching [8]
		For node selection
Type of input		Semiconductor inputs, p-switching [9]
		Safety outputs OSSD1, OSSD2
Test pulses		0,1 ms
Inductive load		max.30 mH
Capacitive load		max.0,82 µF
Type of output		Semiconductor outputs, p-switching, short circuit-proof
Output voltage	HIGH	UB-0,75 ... UB V DC
	LOW	0 ... 2 V DC
Output current		- ... 400 mA

Reliability values acc. to EN ISO 13849-1

ESPE type	4 [10]
Performance Level	PL e [11]
Category	4 [12]
PFH _D	4.09E-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

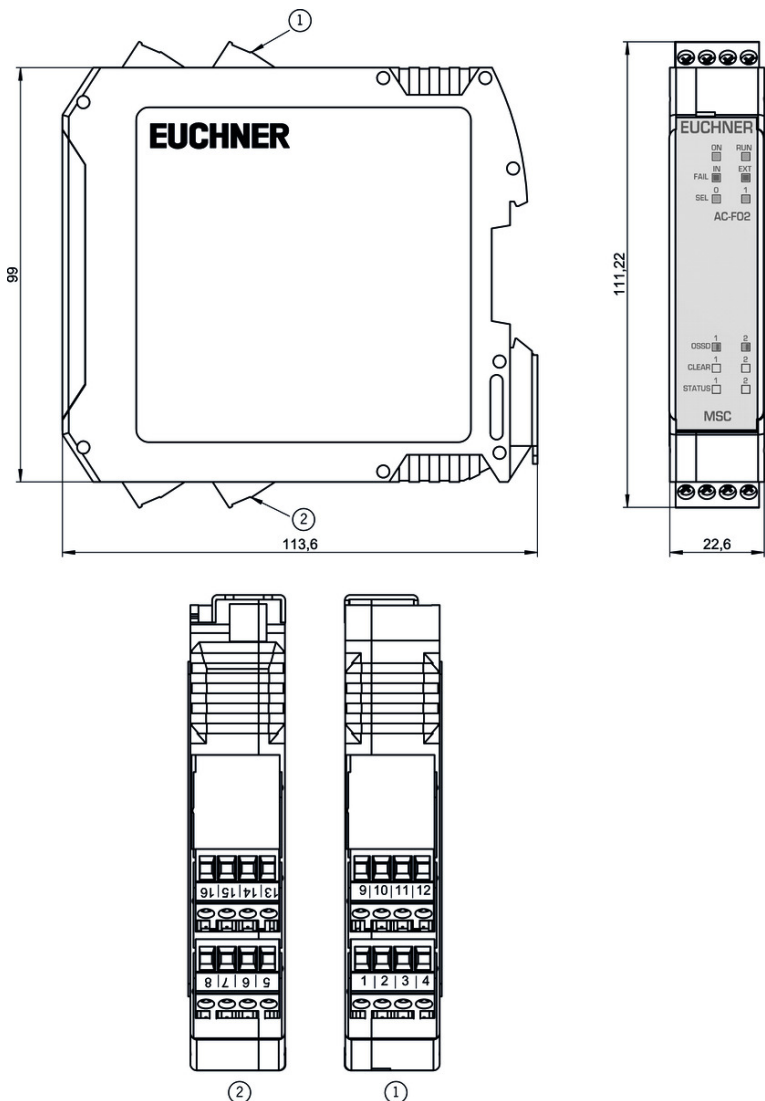
[10] Acc. to EN 61496-1

[11, 12, 15] Acc. to ISO 13849-1:2006/IEC 62061:2005

[13] Acc. to IEC 61508:2010

[14] Acc. to IEC 62061:2005

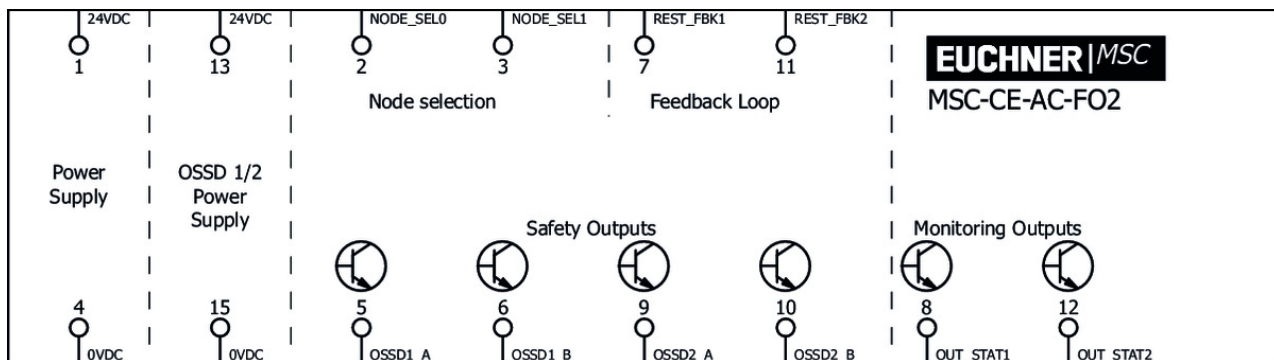
Dimension drawing



Legende

- 1 Page A
- 2 Page B

Block diagram



Connection material

Terminal set 4 contacts, screw terminals



121320 AC-SC-04-V04-121320

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 AC-FO2/AC-FO4 OSSD-ERWEITERUNGSMODULE AC-FO2/AC-FO4

	Doc. no.	Version	Language	Download
MSC AC-FO2/AC-FO4 OSSD- ERWEITERUNGSMODULE AC-FO2/AC-FO4 MSC AC-FO2/AC-FO4 OSSD STATIC OUTPUTS EXPANSION MODULES	121339	01-07/14	 	2.4 MB

TECHNISCHES DATENBLATT Erweiterungsmodule

	Doc. no.	Version	Language	Download
TECHNISCHES DATENBLATT Erweiterungsmodule DOCUMENTO TÉCNICO módulos de expansión FICHE TECHNIQUE modules d'extension FOGLIO TECNICO moduli di espansione TECHNICAL SHEET expansion units	121345	02-02/16	 	1.1 MB

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