



Part no.: 63001041
MC388-S2C5-AL-F
Magnetically coded sensor



Figure can vary

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Technical data

Basic data	
Series	MC388
Functions	
Functions	Type 4 interlock device with low coding acc. to EN ISO 14119
Characteristic parameters	
Mission time T_M	20 years , EN ISO 13849-1
Category	EN ISO 13849
B10 _d	20,000,000 number of cycles
Electrical data	
Protective circuit	Via e.g. MSI-MC311, MSI 400
Contact allocation	2NO + 1NO (signaling)
Contact type	Reed contacts (magnetically sensitive)
Requirement on the voltage supply when used acc. to cULus (UL 508)	Class 2 Circuits
Outputs	
Max. switching voltage	27 V AC/DC
Switching current, max.	500 mA
Timing	
Response time	3 ms
Connection	
Number of connections	1 Piece(s)
Connection 1	
Type of connection	Cable with wire-end sleeves
Function	Contact connection
Cable length	5,000 mm
Sheathing material	PVC
Cable color	Gray
Number of conductors	6 -wire
Mechanical data	
Design	Cubic
Dimension (W x H x L)	25 mm x 13 mm x 88 mm
Housing material	Plastic , Glass fiber reinforced (PPS), self-extinguishing
Net weight	208 g
Housing color	Red
Type of fastening	Through-hole mounting
Installation position	Arbitrary, provided housing markings are aligned
Switch type	Interlock device without guard interlocking , ISO 14119
Approach actuation directions	3-dimensional
Mechanical life time	10,000,000 actuation cycles
External actuator	Magnetically coded
Cut-out point (OFF), min.	19 mm
Assured cut-out distance (Sar), min.	22 mm

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Assured cut-in distance (Sao), max.	9 mm
Switching tolerance (without ferromagnetic materials in immediate vicinity)	-1 ... 1 mm
Distance to other magnetic sensors, min.	50 mm
Approach speed, min.	0.05 m/s

Operation and display

Number of LEDs	1 Piece(s)
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Environmental data

Ambient temperature, operation	-20 ... 70 °C
Degree of contamination, external	3 , EN 60947-1

Certifications

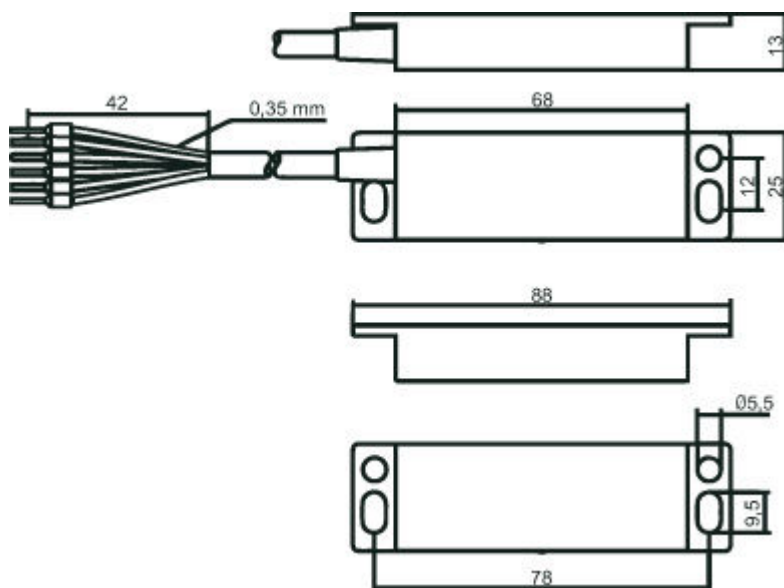
Degree of protection	IP 67
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 60947-5-3 EN 61000-6-2 EN 61000-6-3
Test procedure for oscillation in accordance with standard	EN 60947-5-3
Test procedure for shock in accordance with standard	EN 60947-5-3

Classification

Customs tariff number	90328900
eCl@ss 8.0	27272402
eCl@ss 9.0	27272402
ETIM 5.0	EC002544
ETIM 6.0	EC002544

Dimensioned drawings

All dimensions in millimeters

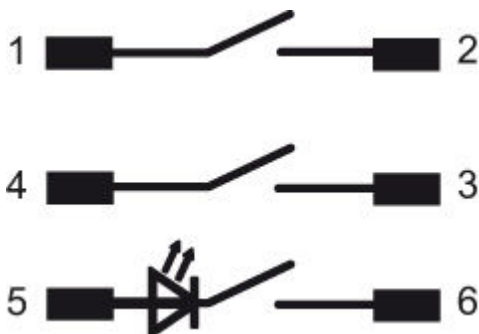


Electrical connection

Connection 1	
Type of connection	Cable with wire-end sleeves
Function	Contact connection
Cable length	5,000 mm
Sheathing material	PVC
Cable color	Gray
Number of conductors	6 -wire

Conductor color	Conductor assignment
Brown	NO(1)
White	NO(1)
Blue	NO(2)
Black	NO(2)
Pink	NO(3)
Gray	NO(3)

Circuit diagrams



- 1 Brown
- 2 White
- 3 Blue
- 4 Black
- 5 Pink
- 6 Gray

Operation and display

LEDs

LED	Display	Meaning
1	Off	Safety outputs off
	Yellow, continuous light	Safety outputs active

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.

ATTENTION!

- The sensor has no internal error detection and cannot assume a safe state in the case of failure.
- To use the sensor in accordance with DIN EN 60947-5-3, a suitable evaluation unit must be connected.
- In combination with a suitable evaluation unit, the sensor can be integrated in the control technology of safety systems up to Cat. 4 / PL e in accordance with EN ISO 13849-1 and SIL CL3 in accordance with IEC 62061.