

1) Sensing surface



Basic features

Approval/Conformity	CE WEEE
Principle of operation	Reed switch (2-wire)
Scope of delivery	Offset screwdriver DIN 911 size 1.5

Display/Operation

Function indicator	yes
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Electrical connection

Cable	PUR, 0.2 m
Cable diameter D	2.90 mm
Connection	M8x1-Male, 3-pin
Polarity reversal protected	no
Protection against device mix-ups	no
Short-circuit protection	no

Electrical data

Load capacitance max. at Ue	0.5 µF
Operating voltage U_b	4...30 VDC/4...30 VAC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	128 mA
Rated operating voltage U_e AC	24 V
Rated operating voltage U_e DC	24 V
Switching frequency	1000 Hz
Turn-off delay t_{off} max.	0.2 ms
Turn-on delay t_{on} max.	0.7 ms
Utilization category	AC-12 DC-12
Voltage drop static max.	4 V

Environmental conditions

Ambient temperature	-20...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
ESD	4A(15kV)
Emission	Group 1, Class A
IP rating	IP65

Functional safety

MTTF (40 °C)	17 a
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Interface

Switching output	Reed switch (2-wire), polarized normally open (NO)
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Magnetic Sensors
BMF 307K-R-AS-L-3-S49-00,2
Order Code: **BMF0078**

BALLUFF

Material

Housing material	LCP
Material jacket	PUR
Material sensing surface	LCP

Mechanical data

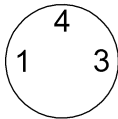
Dimension	29 x 6.2 x 4.4 mm
Tightening torque	0.1 Nm

Remarks

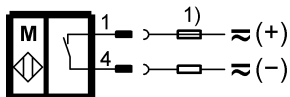
EMC: For operating conditions with noise sources
External protection circuit is required. Document 825345.
Recommendation: After a short circuit check the device for proper function.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams



1) For SCP see electrical data