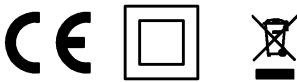


1) Sensing surface



Basic features

Application	larger actuators
Approval/Conformity	CE WEEE
Not incl. in scope of delivery	Mounting bracket, e.g. BMF 305-HW-17
Principle of operation	Reed switch (2-wire)

Display/Operation

Function indicator	yes
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Electrical connection

Cable	PVC, 3 m
Cable diameter D	3.30 mm
Conductor cross-section	0.18 mm ²
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	no

Electrical data

Operating voltage U _b	6...240 VDC/6...240 VAC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	86 mA
Rated operating voltage U _e AC	115 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.	5 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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Material

Housing material	LCP
Material jacket	PVC
Material sensing surface	LCP

Mechanical data

Dimension	33.5 x 5 x 10.5 mm
Mounting part	Mounting bracket BMF 305-HW*

Remarks

Permissible operating current: 128 mA at 24 V AC/DC

41 mA at 240 V AC/DC

Max. pull force on cable 35 N.

For inductive loads a protection circuit in accordance with DIN 43 235 must be used

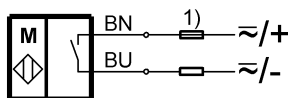
Max. permissible load capacity: Permissible operating current may not be exceeded for even a short time.

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.

Wiring Diagrams



1) For SCP see electrical data