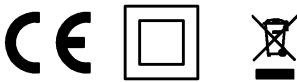


1) Sensing surface



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

