Magnetic Sensors BMF 405KF-PS-C-2A-EY-10 Order Code: BMF00M2







5,0

1) Position sensor element, 2) see remarks, 3) see remarks, 4) see remarks

yes



Display/Operation

Function indicator

Electrical connection

Cable diameter D	2.9 mm
Cable length L	10 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 10 m, TPE-V
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Assured switching field strength Ha	2 kA/m
Load capacitance max. at Ue	1 μF
No-load current lo max., undamped	3.5 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Rated switch field strength Hn	1.2 kA/m
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	10000 Hz
Utilization category	DC -13
Voltage drop static max.	1 V

Environmental conditions

Ambient temperature IP rating	-40100 °C IP67, IP68, IP69K
Functional safety	
MTTF (40 °C)	725 a
General data	
Approval/Conformity	CULUS CE Ecolab RoHS EAC WEEE
Basic standard	IEC 60947-5-2
Material	
Housing material Locking screw material Material jacket Material sensing surface	PP Stainless steel (1.4404) TPE-V PP
Mechanical data	
Dimension	5 x 5.4 x 27 mm
Output/Interface	
Switching output	PNP normally open (NO)

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BALLUFF

Remarks

2) Application area: pneumatic cylinder with t-slot. For dimensions, see sketch in product view.

3) Damping magnet axially magnetized

4) Set screw

Switching frequency f max.: Measured at 50 % duty cycle and 20 % le

Part label is not suited for cleaning processes.

100x temperature cycles per IEC 60068-2-14 passed for -40...120 °C.

For further information about the 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



Help Views

