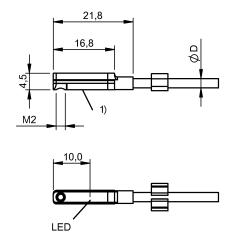
BMF 204K-PS-C-2A-PU-02

Order Code: BMF0001

















Basic features

Daoio reatareo		
Application	Optimized response path especially suited for short-stroke cylinders.	
Approval/Conformity	cULus CF	
	UKCA	
	WEEE	
Basic standard	IEC 60947-5-2	
Principle of operation	Magnetic field sensor	
Scope of delivery	Cable clip for C-slot	
Trademark	Global	
Display/Operation		
Function indicator	yes	
Electrical connection		
Cable	PUR, 2 m	
Cable diameter D	2.50 mm	
Conductor cross-section	0.10 mm ²	
Number of conductors	3	

yes

yes

Electrical data

Assured switching field strength Ha	2 kA/m
Load capacitance max. at Ue	1 μF
No-load current lo max., undamped	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.	80 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	7000 Hz
Turn-off delay toff max.	0.07 ms
Turn-on delay ton max.	0.07 ms
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

-2585 °C	
3	
Half-sinus, 30 g _n , 11 ms	
55 Hz, amplitude 1 mm, 3x30 min	
3A(8KV)	
Group 1, Class B	
IP67	

Polarity reversal protected Protection against device mix-ups

Short-circuit protection

Magnetic Sensors

BMF 204K-PS-C-2A-PU-02 Order Code: BMF0001



Functional safety		Mechanical data	
MTTF (40 °C)	520 a	Dimension	16.8 x 2.9 x 4.5 mm
		Mounting part	C-slot
Interface			Sommer
			Festo slot 10
Switching output	PNP normally open (NO)	Tightening torque	0.03 Nm
Material		Range/Distance	
Housing material	PA 12	Temp. drift max. (% of Hn)	0.3 %
Material jacket	PUR		

Remarks

The sensor is functional again after the overload has been eliminated.

EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

Max. pull force on cable 10 N.

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers

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 (Schematic) BK BU

Subject to change without notice: 295902