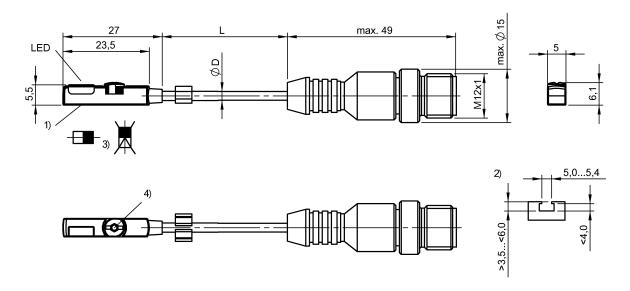
## BMF 235K-PS-C-2A-SA2-S4-00,3

Order Code: BMF00C5

# BALLUFF



1) Sensing surface, 2) see remarks, 3) see remarks, 4) see remarks









#### Basic features

Application	Pneumatic cylinder with T-slot. For dimensions, see sketch in product view.
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Magnetic field sensor
Scope of delivery	Cable clip for T-slot
Trademark	Global

#### Display/Operation

Function indicator	yes
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#### Electrical connection

Cable	PUR, 0.3 m
Cable diameter D	2.50 mm
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	no
Protection against device mix-ups	no
Short-circuit protection	yes

#### Electrical data

Assured switching field strength Ha	2 kA/m
Hysteresis H max. (% of Hn)	45 %
Load capacitance max. at Ue	1 μF
No-load current Io max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 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	3000 Hz
Turn-off delay toff max.	0.1 ms
Turn-on delay ton max.	0.1 ms
Utilization category	DC -13
Voltage drop static max.	2.5 V

#### **Environmental conditions**

Subject to change without notice: 291570

Ambient temperature	-2585 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
ESD	3A(8KV)
Emission	Group 1, Class B
IP rating	IP67

### BMF 235K-PS-C-2A-SA2-S4-00,3 Order Code: BMF00C5



**Functional** safety Mechanical data MTTF (40 °C) 355 a Dimension 23.5 x 5 x 5.5 mm Mounting part can be installed in T-slot from above Interface Tightening torque 0.4 Nm Switching output PNP normally open (NO) Range/Distance Material Temp. drift max. (% of Hn) 0.3 % Housing material PA 12 PUR Material jacket Material sensing surface ΡU

#### Remarks

Damping magnet axially magnetized

Effective operating current le with thermally coupled installation in metal.

- 2) Application area: pneumatic cylinder with t-slot. For dimensions, see sketch in product view.
- 4) Allen wrench 2.0 mm: max. tightening torque 0.4 Nm. Screw driver 4x0.8 mm: max. tightening torque 1 Nm
- UL-MARKINGS: For use in NFPA 79 Applications only Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

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.

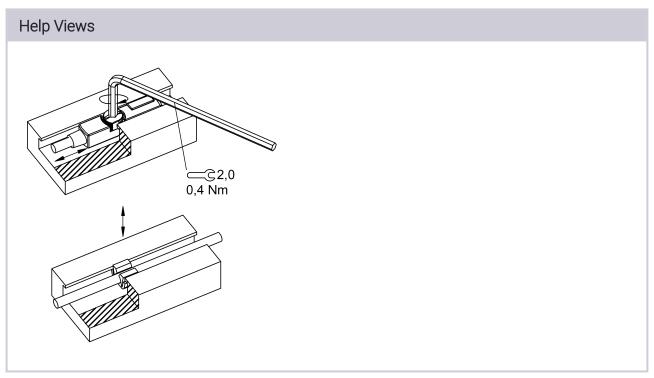


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BMF 235K-PS-C-2A-SA2-S4-00,3

Order Code: BMF00C5





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