

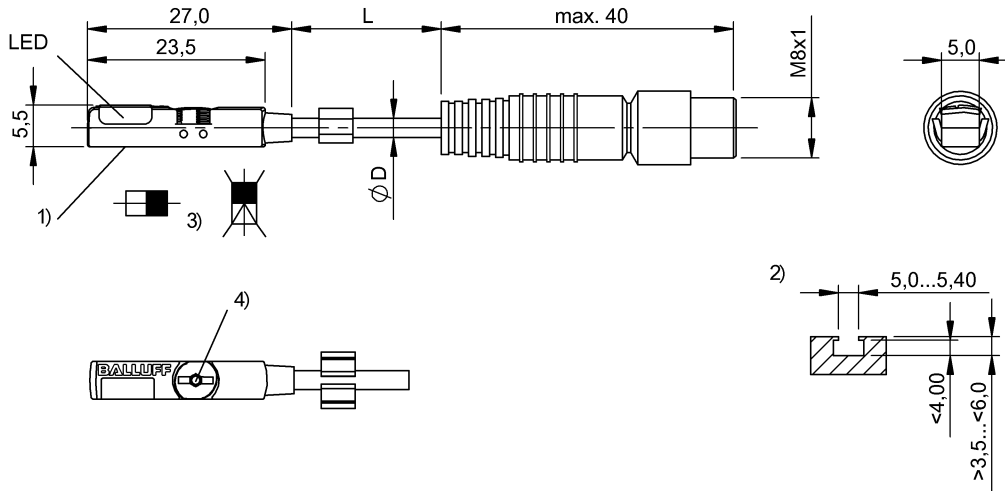
**BMF 235K-PS-C-2A-SA2-S49-00,3**  
**Ordering code: BMF00C4**

PNP, Normally open (NO)  
 Miniature

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Sensors for cylinders  
 BMF 235  
 Cylinder housing: T-slot



1) Active surface, 2) See remarks, 3) See remarks, 4) See remarks

**Characteristic data**

Connection type	Cable with connector
Operating voltage	10...30 V DC
Short-circuit protected	yes
Protected against polarity reversal	yes
Protected against reverse connection	no

**Electrical data**

Electrical version	DC, direct current
Rated operating voltage Ue DC	24,0 V
Effective operating current Ie	200 mA
Rated insulation voltage Ui	75 DC V
Rated short circuit current	100 A
Output resistance Ra	Open drain
Load capacitance max. (at Ue)	1 µF
No-load current I <sub>o</sub> damped	6 mA
No-load current I <sub>o</sub> undamped	3 mA
Off-state current I <sub>r</sub> max.	80 µA
Ripple max. (% of Ue)	15 %
Switching freq. f max.	3000 Hz
Voltage drop static max.	2,5 V
Turn-off delay t <sub>off</sub> max.	0,10 ms
Turn-on delay t <sub>on</sub> max.	0,10 ms
Rated switching field strength	1,2 kA/m
Assured switching field strength	2 kA/m

**Mechanical data**

Housing material	PA 12
Sensing surface material	PU
Cable jacket material	PUR
Cable short designation	LI12Y11Y-O
Cable length	0,3 m
Cable diameter D max.	2,5 mm
Connector type	M08x1-S49
Ambient temperature	-25...85 °C
Temperature drift max. % of I <sub>n</sub>	0,3 %
Tightening torque	0.4 Nm

**Basic data**

Enclosure type per IEC 60529	IP67
Degree of contamination	3
Basic standard	IEC 60947-5-2
Utilization category	DC 13

**Remarks**

- Scope of delivery Cable clip for T-slot
- 2) Application area: pneumatic cylinder with t-slot. For dimensions, see sketch in product view.
- 4) Hex key size 1.5 mm: Max. tightening torque 0.4 Nm. Screwdriver 4x0.8 mm: Max. tightening torque 1 Nm
- 3) Damping magnet, axially magnetized
- Rated operating current I<sub>e</sub> for thermally coupled installation in metal.



Definitions see main catalog

subject to change

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