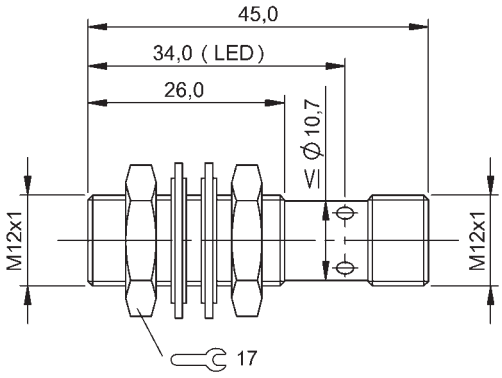
Inductive sensor

BES M12MD1-PSC60B-S04G
BES02WM

BALLUFF
sensors worldwide



- **PNP**
- **Normally open (NO)**
- **6.00 mm**
- **Quasi embeddable**
- **Connector, M12x1-S04**

CE cULus LISTED IND. CONT. EQ. 11RZ for use in the secondary of a class 2 source of supply

General attributes

Approvals / Conformity	CE cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	Yes
Polarity reversal protected	Yes
Power indicator	No
Short circuit protected	Yes
Trademark	TripleProx

Electrical attributes

Connection type	Connector
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	1.000 µF
Max. no-load cur. Io undamped	10.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	10.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	20 %
Switching freq. f max. (at Ue)	800 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.0 V

Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	4.80 mm
Connector type	M12x1-S04
Depth	45.0 mm
Diameter d1	M12x1
Eff. operating distance Sr	6.00 mm
Housing material	CuZn
Mech. installation condition	Quasi embeddable
Mounting length	26.0 mm
Rated operating distance Sn [mm]	6.00 mm
Sensing face material	PBT
Surface protection	Chrome-plated
Tightening torque	10 Nm

Additional text

With connector, e.g. BKS-S 20-… total length = switch length +18 mm.
The sensor is functional again after the overload has been eliminated.
Quasi-shielded: See installation instructions for inductive sensors with extended switching distance 825356.

