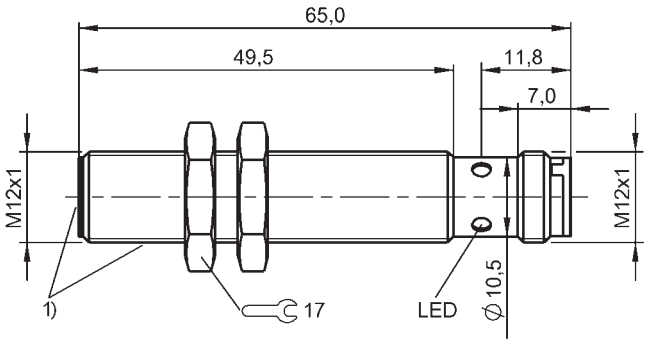
Inductive sensor

BES M12EI-PSC40B-S04G-S
BES02NA

BALLUFF
sensors worldwide



1) Area of pressure resistance

- **PNP**
- **Normally open (NO)**
- **4.00 mm**
- **Flush (shielded)**
- **Connector, M12x1-S04**

LISTED IND. CONT. EQ. 81U2 for use in the secondary of a class 2 source of supply

IND. CONT. EQ 81U2 for use in the secondary of a class 2 source of supply Environmental - Type 1 Enclosure

General attributes

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

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
No-load current Io damped max.	15.0 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)	10 %
Switching freq. f max. (at Ue)	500 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.5 V

Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	3.20 mm
Connector type	M12x1-S04
Depth	65.0 mm
Diameter d1	M12x1
Eff. operating distance Sr	4.00 mm
Housing material	Stainless steel
Mech. installation condition	Flush (shielded)
Mounting length	49.5 mm
Pressure resistance	pressure-rated up to 60 bar
Rated operating distance Sn [mm]	4.00 mm
Sensing face material	Stainless steel
Tightening torque	20 Nm ±10 %

Additional text
The sensor is functional again after the overload has been eliminated.
For installation in metals see installation instruction 857785.

