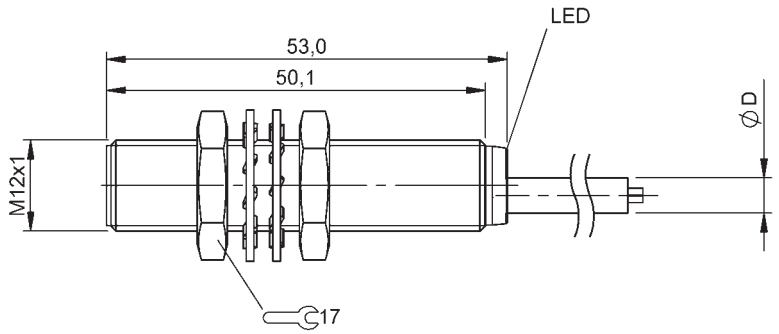
Inductive sensor

BES M12MI-PSC40B-BV02
BES0064

BALLUFF
sensors worldwide



- **PNP**
- **Normally open (NO)**
- **4.00 mm**
- **Flush (shielded)**
- **Cable, PVC, 2.00 m**

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	IP68 according to BWN PR 20
Function indicator	Yes
Operating distance marking	■■
Polarity reversal protected	Yes
Power indicator	No
Protection Class	II
Short circuit protected	Yes
Trademark	GLOBAL

Electrical attributes

Connection type	Cable
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	0.500 µF
Max. no-load cur. Io undamped	3.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	6.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Rated insulation voltage Ui	250 VAC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	1000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	3.0 V

Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	3.20 mm
Cable diameter D max.	4.7 mm
Cable jacket material	PVC
Cable length	2.00 m
Conductor cross-section	0.34 mm²
Depth	53.0 mm
Diameter d1	M12x1
Eff. operating distance Sr	4.00 mm
Housing material	CuZn
Mech. installation condition	Flush (shielded)
Mounting length	50.0 mm
Number of conductors	3
Rated operating distance Sn [mm]	4.00 mm
Sensing face material	LCP
Surface protection	Nickel-free coating
Tightening torque	10 Nm

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

