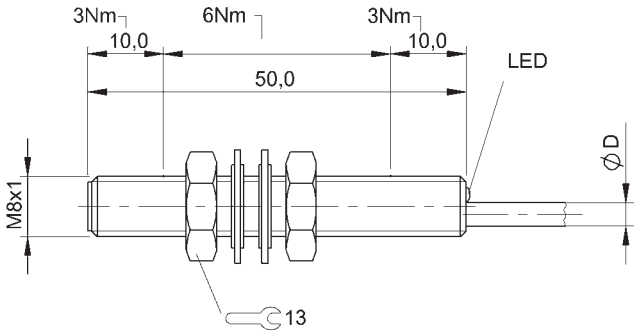
Inductive sensor

BES M08MI-PSC20B-BV02
BES003K

BALLUFF
sensors worldwide



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

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	CE cULus
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	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)	1.000 µF
Max. no-load cur. Io undamped	5.0 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]	12.0 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	700 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	1.60 mm
Cable diameter D max.	3.0 mm
Cable jacket material	PVC
Cable length	2.00 m
Conductor cross-section	0.14 mm²
Depth	50.0 mm
Diameter d1	M08x1
Eff. operating distance Sr	2.00 mm
Housing material	CuZn
Mech. installation condition	Flush (shielded)
Mounting length	50.0 mm
Number of conductors	3
Rated operating distance Sn [mm]	2.00 mm
Sensing face material	PA 12
Surface protection	Nickel-plated
Tightening torque	3 Nm

Additional text

The sensor is functional again after the overload has been eliminated.
EMC: For operating conditions with noise factors; external protectioncircuit required.
Document 825345.
Embeddable: See installation notes for inductive sensors with extended switching distance 825357.

