



**Basic features**

Trademark Global

**Display/Operation**

Power indicator no

**Electrical connection**

Cable diameter D 3.00 mm  
 Cable length L 2 m  
 Conductor cross-section 0.14 mm<sup>2</sup>  
 Connection type Cable, 2.00 m, PVC  
 Number of conductors 3  
 Polarity reversal protected yes  
 Protection against device mix-ups yes  
 Short-circuit protection yes

**Electrical data**

Load capacitance max. at Ue 1 µF  
 No-load current I<sub>o</sub> max., damped 7 mA  
 No-load current I<sub>o</sub> max., undamped 2 mA  
 Operating voltage U<sub>b</sub> 10...30 VDC  
 Output resistance R<sub>a</sub> 33.0 kOhm  
 Protection class II  
 Rated insulation voltage U<sub>i</sub> 250 V AC  
 Rated operating current I<sub>e</sub> 200 mA  
 Rated operating voltage U<sub>e</sub> DC 24 V  
 Rated short circuit current 100 A  
 Ready delay t<sub>v</sub> max. 25 ms  
 Residual current I<sub>r</sub> max. 10 µA  
 Ripple max. (% of U<sub>e</sub>) 10 %  
 Switching frequency 5000 Hz  
 Voltage drop static max. 2.5 V

**Environmental conditions**

Ambient temperature -25...70 °C  
 Contamination scale 3  
 IP rating IP68

**Functional safety**

MTTF (40 °C) 595 a

**Interface**

Switching output PNP normally open (NO)

Inductive Sensors  
**BES M08MI-PSC20B-BV02**  
Order Code: **BES003K**

**BALLUFF**

**Material**

Housing material	Brass, Nickel-free coated
Material jacket	PVC
Material sensing surface	PBT

**Mechanical data**

Dimension	Ø 8 x 50 mm
Installation	for flush mounting
Size	M8x1

**Range/Distance**

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

**Wiring Diagrams**

