



Basic features

Trademark Global

Display/Operation

Power indicator no

Electrical connection

Cable diameter D 3.00 mm
 Cable length L 5 m
 Connection M12x1-Male, 4-pin, A-coded
 Connection type Cable with connector, 5.00 m, PUR
 Polarity reversal protected yes
 Protection against device mix-ups yes
 Short-circuit protection yes

Electrical data

Load capacitance max. at Ue 1 µF
 Min. operating current I_m 0 mA
 No-load current I_o max., damped 10 mA
 No-load current I_o max., undamped 5 mA
 Operating voltage U_b 12...30 VDC
 Output resistance R_a 33.0 kOhm + D
 Rated insulation voltage U_i 75 V DC
 Rated operating current I_e 200 mA
 Rated operating voltage U_e DC 24 V
 Rated short circuit current 100 A
 Ready delay t_v max. 30 ms
 Residual current I_r max. 20 µA
 Ripple max. (% of U_e) 15 %
 Switching frequency 700 Hz
 Voltage drop static max. 2.5 V

Environmental conditions

Ambient temperature -25...70 °C
 Contamination scale 3
 IP rating IP67

Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, nickel-plated
 Material jacket PUR
 Material sensing surface PA 12

Inductive Sensors
BES M08MI-PSC20B-BP05-GS04
Order Code: BES04WN

BALLUFF

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 %

Connector Drawings



Wiring Diagrams

