



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 mm²
 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 U_e 1 µF
 No-load current I_o max., damped 2 mA
 No-load current I_o max., undamped 7 mA
 Operating voltage U_b 10...30 VDC
 Output resistance R_a 33.0 kOhm
 Protection class II
 Rated insulation voltage U_i 250 V AC
 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. 25 ms
 Residual current I_r max. 10 µA
 Ripple max. (% of U_e) 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 NPN normally closed (NC)

Inductive Sensors
BES M08MI-NOC20B-BV02
Order Code: BES03TF

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

