



Basic features

Trademark Global

Display/Operation

Power indicator no

Electrical connection

Cable diameter D 4.60 mm
 Cable length L 5 m
 Conductor cross-section 0.34 mm²
 Connection type Cable, 5.00 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
 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
 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. 30 ms
 Residual current I_r max. 20 µA
 Ripple max. (% of U_e) 15 %
 Switching frequency 150 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) 880 a

Interface

Switching output NPN normally open (NO)

Inductive Sensors
BES M18MI-NSC80B-BV05
Order Code: BES007K

BALLUFF

Material

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

Mechanical data

Dimension	Ø 18 x 56 mm
Installation	for flush mounting
Size	M18x1

Range/Distance

Assured operating distance Sa	6.5 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Wiring Diagrams

