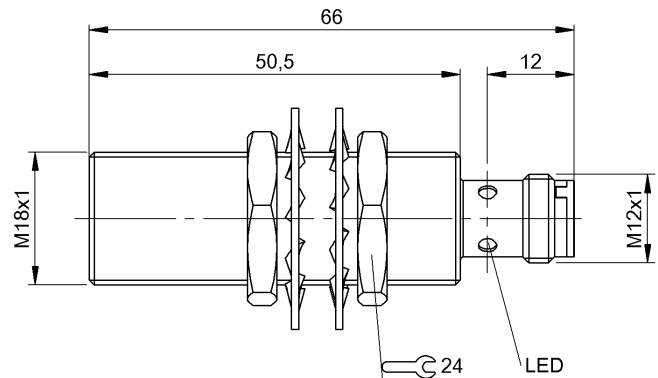




Basic features

Trademark Factor 1

Display/Operation

Power indicator no

Electrical connection

Connection M12x1-Male, 3-pin, A-coded
Electrical version 3-wire
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 35 mA
No-load current I_o max., undamped 25 mA
Operating voltage U_b 10...30 VDC
Output resistance R_a 100.0 kOhm
Protection class II
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
Ripple max. (% of U_e) 15 %
Switching frequency 2500 Hz
Voltage drop static max. 2 V

Environmental conditions

Ambient temperature -40...85 °C
Contamination scale 3
IP rating IP68, according to BWN Pr 20
Magnetic field immune magnetic field immune (AC/DC)

Functional safety

MTTF (40 °C) 200 a

Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, PTFE coated
Material sensing surface PBT, PTFE coated

Mechanical data

Dimension Ø 18 x 66 mm
Installation for flush mounting
Mounting length 50 mm
Size M18x1

Inductive Sensors
BES M18MI-PSC80A-S04G-W07
Order Code: BES05AH



Range/Distance

Assured operating distance Sa	6.4 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 %

Connector Drawings



Wiring Diagrams

