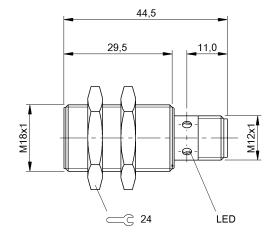
## **Inductive Sensors** BES M18ME-PSC80B-S04G-003 **Order Code: BES00EZ**

# BALLUFF



# X

#### **Basic features**

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Trademark	Global
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 3-pin, A-coded

Connection	M12x1-Male, 3-pin, A-c
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 Im	0 mA
No-load current lo max., damped	25 mA
No-load current lo max., undamped	12 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	2.0 kOhm + D + LED
Rated insulation voltage Ui	75 V DC
Rated operating current le	130 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	10 ms
Residual current Ir max.	80 µA
Ripple max. (% of Ue)	15 %
Switching frequency	150 Hz
Utilization category	DC -13
Voltage drop static max.	3.8 V

#### **Environmental conditions**

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	

#### - F

MTTF (40 °C)

1620 a

#### Interface

Switching output

PNP normally open (NO)

Internet

eCl@ss 9.1: ETIM 6.0: BES00EZ\_3.2\_2022-06-29

# Inductive Sensors BES M18ME-PSC80B-S04G-003 Order Code: BES00EZ



#### Material

Housing material	Brass, nickel-plated	
Material sensing surface	PBT	
Mechanical data		
Dimension	Ø 18 x 44.5 mm	
Installation	for flush mounting	
Size	M18x1	
Tightening torque	25 Nm	

#### **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 %

#### **Remarks**

Flush: See installation instructions for inductive sensors with extended range 825357. The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

### **Connector Drawings**



#### **Wiring Diagrams**

