





#### **Basic features**

Approval/Conformity	CE UKCA cULus 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	IVITZX I-IVIAIE, S-PIT, A-C
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

#### Electrical data

Load capacitance max. at Ue	0.5 µF
Min. operating current Im	0 mA
No-load current Io max., damped	8 mA
No-load current lo max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	30 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	1300 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

## Environmental conditions

-4085 °C
3
Half-sinus, 30 g <sub>n</sub> , 11 ms
55 Hz, amplitude 1 mm, 3x30 min
IP68
411 a

Internet

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES007L\_1.82\_2024-05-31

# Inductive Sensors BES M18MI-NSC80B-S04G Order Code: BES007L

# BVLLAL

#### Material

Material	
Housing material Material sensing surface	Brass, Nickel-free coated PBT
Mechanical data	
Dimension	Ø 18 x 66 mm
Installation	for flush mounting
Mounting length	50.5 mm
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	8.0 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	15 %
Tolerance Sr	±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated. Flush: See installation instructions for inductive sensors with extended range 825357. 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

