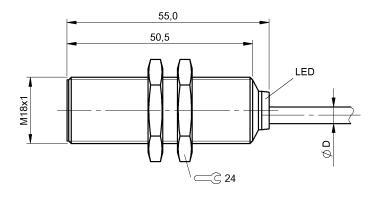
Inductive Sensors BES M18MI-PSC80B-BV05 Order Code: BES008H







Basic features

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Trademark	Global

yes no

Display/Operation

Function indicator
Power indicator

Electrical connection

Cable diameter D	4.50 mm
Cable length L	5 m
Conductor cross-section	0.34 mm ²
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 Ue	0.5 μF
Min. operating current Im	0 mA
No-load current lo 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

Ambient temperature	-4085 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68

Functional safety

MTTF (40 °C)

Interface

Switching output

PNP normally open (NO)

Internet

465 a

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BALLUFF

6.4 mm 15.0 %

8.0 mm 8 mm

5.0 %

15 % ±10 %

Material

Material		Range/Distance	
Housing material	Brass, Nickel-free coated	Assured operating distance Sa	
Material jacket	PVC	Hysteresis H max. (% of Sr)	
Material sensing surface	PBT	Rated operating distance Sn	
		Real switching distance sr	
Mechanical data		Repeat accuracy max. (% of Sr)	
Dimension	Ø 18 x 55 mm	Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr	
Installation	for flush mounting		
Size	M18x1	Toterance Si	
Tightening torque	25 Nm		

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.

Wiring Diagrams

