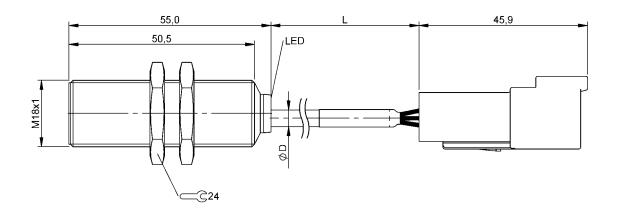
# BES M18MI-PSC80B-BP00,15-Z07

Order Code: BES05YF















Pooio	footuroo
Basic	features

Baoio roataroo		
Approval/Conformity	CE	
	UKCA	
	cULus	
	WEEE	
Basic standard	IEC 60947-5-2	
Trademark	Global	
Display/Operation		
Function indicator	yes	
Power indicator	no	

Electrical connection		
Cable diameter D	4.60 mm	
Cable length L	0.15 m	
Conductor cross-section	0.34 mm <sup>2</sup>	
Connection	DEUTSCH DT04-4P-CE02, 4-pin	
Connection type	Cable with connector, 0.15 m, TPL	
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 μΑ
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 <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68
IP rating (connector)	IP67
Functional safety	
MTTF (40 °C)	465 a

# BES M18MI-PSC80B-BP00,15-Z07 Order Code: BES05YF



#### Interface

Switching output PNP normally open (NO)

#### Material

Housing material Brass, Nickel-free coated

TPU Material jacket PBT Material sensing surface

#### Mechanical data

Dimension Ø 18 x 55 mm Installation for flush mounting Mounting length 50.5 mm Size M18x1 Tightening torque 25 Nm

### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr

6.4 mm 15.0 % 8 mm 8 mm 5.0 % 15% ±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated.

Flush: See installation instructions for inductive sensors with extended range 825357.

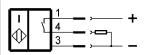
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Subject to change without notice: 280851