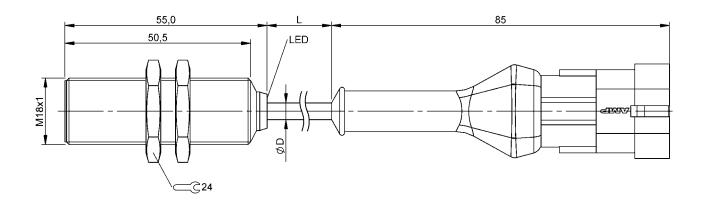
BES M18MI-PSC80B-BP00,15-Z10

Order Code: BES05YH















Basic features	Basi	c fe	atu	res
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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 mm²
Connection	AMP SUPERSEAL 3P, 3-pin
Connection type	Cable with connector, 0.15 m, TPU
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 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 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	1300 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Subject to change without notice: 280852

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
IP rating (connector)	IP67
Functional safety	
MTTF (40 °C)	465 a

BES M18MI-PSC80B-BP00,15-Z10 Order Code: BES05YH



Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, Nickel-free coated

Material jacketTPUMaterial sensing surfacePBT

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

15 % ±10 %

6.4 mm

15.0 %

8 mm

8 mm

5.0 %

Remarks

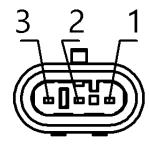
The sensor is functional again after the overload has been eliminated.

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

