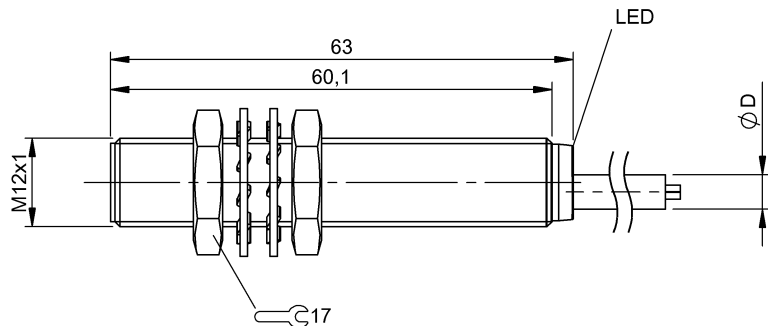




Basic features

Approval/Conformity	cULus
	CE
Basic standard	UKCA
	WEEE
	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.6 mm
Cable length L	5 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 5 m, PVC
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	1.0 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	7 mA
No-load current I _o max., undamped	4 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	100.0 kOhm
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	23 ms
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	15 %
Switching frequency	3500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-40...85 °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)	705 a
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Inductive Sensors
BES M12EN-PAC20B-BV05
Order Code: BES057R



Interface

Switching output	PNP normally open/normally closed (NO/NC)
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Material

Housing material	Stainless steel
Material jacket	PVC
Material sensing surface	PBT

Mechanical data

Dimension	Ø 12 x 63 mm
Installation	for flush mounting
Mounting length	60.1 mm
Size	M12x1
Tightening torque	20 Nm

Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

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.

Wiring Diagrams (Schematic)

