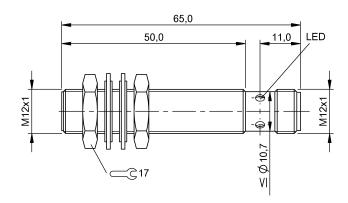
BES M12ML-PSC30A-S04G-W01

Order Code: BES02K4















Basic features

Additional features	Factor 1	
	Weld immune	
Approval/Conformity	CE	
	UKCA	
	cULus	
	WEEE	
Basic standard	IEC 60947-5-2	
Trademark	Factor 1	
Display/Operation		

Function indicator

Power indicator

Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

yes

Electrical data

Load capacitance max. at Ue	1 μF
Magnetic field strength, interference field	100 kA/m
Min. operating current Im	0 mA
No-load current lo max., damped	15 mA
No-load current lo max., undamped	10 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm
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.	15 ms
Residual current Ir max.	80 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	2000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Subject to change without notice: 290985

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	IP67
Magnetic field immune	magnetic field immune (AC/DC)
Functional safety	

Inductive Sensors

BES M12ML-PSC30A-S04G-W01 Order Code: BES02K4



Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, PTFE coated

Material sensing surface ceramic coated

Mechanical data

 Dimension
 Ø 12 x 65 mm

 Installation
 for flush mounting

 Size
 M12x1

 Tightening torque
 10 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

Remarks

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

Sn: reduced by the coating thickness of 0.2 mm.

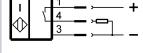
For more information about MTTF and B10d see MTTF / B10d Certificate

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



3 mm 3 mm

2.2 mm

15.0 %

5.0 % •• 10 %

±10 %