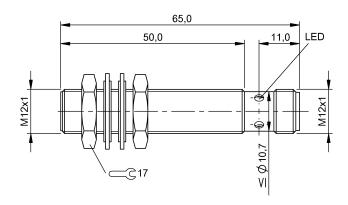
BES M12ML-PSC30A-S04G-W

Order Code: BES02K3















Basic features

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

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

Electrical data

Load capacitance max. at Ue	1 μF
Magnetic field strength, interference	100 kA/m
field	
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

Ambient temperature	-2570 °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	IP67
Magnetic field immune	magnetic field immune (AC/DC)
Functional safety	
MTTF (40 °C)	320 a

1/2

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Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, PTFE coated

Material sensing surface LCP/PTFE

Mechanical data

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 2.4 mm
15.0 %
3 mm
3 mm
5.0 %

10 %
±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.

Connector Drawings



Wiring Diagrams

