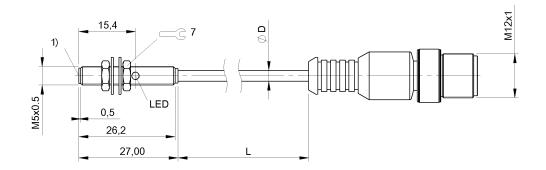
BES 516-3005-G-SA13-E4-C-S4-00,3

Order Code: BES05PM





1) Sensing surface









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Approval/Conformity	CE UKCA cULus WEEE
Base type deviation	Connector weld-splatter resistant
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Cable diameter D	3.00 mm
Cable length L	0.3 m
Conductor cross-section	0.14 mm ²

M12x1-Male, 3-pin

yes

yes

Cable with connector, 0.3 m, TPE

Electrical data

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	6 mA
No-load current lo max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	21 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Environmental condition	ns
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
Functional safety	

Subject to change without notice: 278415

MTTF (40 °C) 305 a

Connection

Connection type

Polarity reversal protected Protection against device mix-ups

Short-circuit protection

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Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel, coated

Material jacketTPEMaterial sensing surfaceCeramic

Mechanical data

 Dimension
 Ø 5 x 27 mm

 Installation
 for flush mounting

 Mounting length
 26.00 mm

 Size
 M5x0.5

 Tightening torque
 1 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 1.21 mm 15.0 % 1.5 mm 1.5 mm 5.0 % 10 % ±10 %

Remarks

EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

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

Cable weld bead resistant

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 (Schematic)

