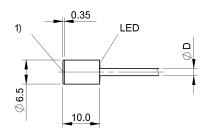
BES G06EA-PSC15B-EP02 **Order Code: BES025M**





1) Sensing surface





Class 2 Type 1



Basic features

Approval/Conformity CE cUL us EAC WEEE Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes **Power indicator**

Electrical connection

Cable diameter D 2.10 mm Cable length L 2 m Conductor cross-section 0.073 mm² Connection type Cable, 2.00 m, PUR **Number of conductors** Polarity reversal protected yes Protection against device mix-ups Short-circuit protection ves

Electrical data

Load capacitance max. at Ue $0.2~\mu\text{F}$ Min. operating current Im 1 mA No-load current lo max., damped 9 mA No-load current lo max., undamped 3 mA Operating voltage Ub 10...30 VDC Output resistance Ra Open collector 75 V DC Rated insulation voltage Ui Rated operating current le 150 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 20 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 10 % Switching frequency 3000 Hz DC -13 **Utilization category** Voltage drop static max. 2.5 V

Environmental conditions

Ambient temperature -25...70 °C Contamination scale EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min Protection degree IP67

Functional safety

MTTF (40 °C) 830 a

BES G06EA-PSC15B-EP02 Order Code: BES025M



Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

 Dimension
 Ø 6.5 x 10 mm

 Installation
 for flush mounting

 Size
 D6.5

Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

For mounting and installation see Accessories section

Max. pull force on cable 10 N.

EMC: EMC protection circuit required, see 825345. IVW: 2.2

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

