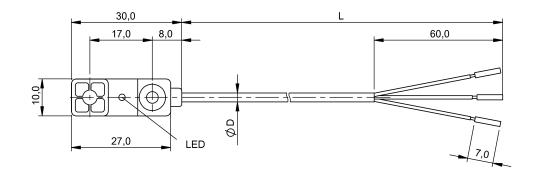
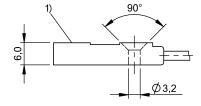
BES R03KC-PSF30B-EP02 **Order Code: BES052N**

BALLUFF





1) Sensing surface









Basic features

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

Display/Operation

Function indicator yes Power indicator

Electrical connection

Cable diameter D 3.00 mm Cable length L 2 m Conductor cross-section 0.14 mm² Connection type Cable, 2.00 m, PUR Polarity reversal protected ves Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ No-load current lo max., damped 6 mA No-load current lo max., undamped 3 mA 5...30 VDC Operating voltage Ub Output resistance Ra Open drain Rated insulation voltage Ui 75 V DC Rated operating current le 50 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A 21 ms Ready delay tv max. Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 3000 Hz **Utilization category** DC -13 Voltage drop static max. 1.1 V

Environmental conditions

Ambient temperature -25...70 °C Contamination scale 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

Interface

Subject to change without notice: 247157

Switching output PNP normally open (NO)

Inductive Sensors

BES R03KC-PSF30B-EP02 Order Code: BES052N



±10 %

Material

Housing materialPA 6, GF30Material jacketPUR

Material sensing surface PA 6, GF30/black

Mechanical data

 $\begin{array}{lll} \textbf{Dimension} & 30 \times 10 \times 6 \text{ mm} \\ \textbf{Installation} & \text{for flush mounting} \\ \textbf{Size} & 30 \times 10 \times 6 \\ \textbf{Tightening torque} & 0.6 \text{ Nm} \\ \end{array}$

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 %

Remarks

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

Wiring Diagrams

