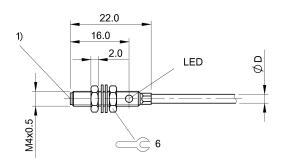
BES M04EC-PSC10B-EP02

BALLUFF **Order Code: BES03Z8**









Basic features

Approval/Conformity CE cULus EAC WEEE

IEC 60947-5-2 Basic standard

Display/Operation

Function indicator yes Power indicator

Electrical connection

Cable diameter D 2.40 mm Cable length L 2 m 0.10 mm² Conductor cross-section Connection type Cable, 2.00 m, PUR **Number of conductors** Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $0.15 \, \mu F$ 0 mA Min. operating current Im No-load current lo max., damped 5 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC **Output resistance Ra** Open drain 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 25 ms Residual current Ir max. 10 μΑ 10 % Ripple max. (% of Ue) 3500 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 2 V

Environmental conditions

-25...70 °C Ambient temperature 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

MTTF (40 °C) 305 a

Interface

Subject to change without notice: 229321

Switching output PNP normally open (NO)

Inductive Sensors

BES M04EC-PSC10B-EP02 Order Code: BES03Z8



Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

Range/Distance

Assured operating distance Sa 0.8 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 1 mm Real switching distance sr 1 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

Remarks

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

EMC: Surge resistance

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

The temperature drift can be below -15°C and above +60°C, up to 15% of Sr.

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

