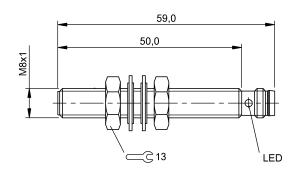
### BES M08MI-PSC40B-S49G

Ordercode: BES01ZW





# CE EHL CONT. EQ UIS NO. CONT. EQ UISTED Class 2 Type 1



Dia	nlov	100	rotion
D12	piay.	/Opt	eration

Function indicator yes Power indicator no

#### Electrical connection

Connection M8x1-Male, 3-pole Protection against device mix-ups yes Short-circuit protection yes

#### Electrical data

1 µF Load capacitance max, at Ue 8 mA No-load current lo max., undamped 10 mA No-load current lo max., damped 10...30 VDC Operating voltage Ub 33.0 kOhm + 2D Output resistance Ra Polarity reversal protected yes Rated insulation voltage Ui 75 V DC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 10 ms 10 µA Residual current Ir max. Residual ripple max. (% of Ue) 15 % 800 Hz Switching frequency DC-13 Utilization category Voltage drop static max. 2.8 V

#### Environmental conditions

Ambient temperature 0...60 °C Contamination scale EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms

Internet Balluff Germany Balluff USA **Balluff China** 

www.balluff.com +49 (0) 7158 173-0, 173-370 1-800-543-8390 +86 (0) 21-50 644131

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30

IP rating IP67

Functional safety

MTTF (40 °C) 355 a

General data

CE cULus Approval/Conformity

Basic standard IEC 60947-5-2

Material

Housing material Brass Material sensing surface PBT Surface protection nickel plates

Mechanical data

Ø 8 x 59 mm Dimension Installation quasi-flush Size M8x1 Tightening torque 3 Nm

Output/Interface

Switching output PNP Normally open (NO)

Range/Distance

Assured operating distance Sa 2.9 mm Effective operating distance Sr 4 mm 15.0 % Hysteresis H max. (% of Sr)

eCl@ss 9.1: 27-27-01-01 For definitions of terms, see main catalog Subject to change without notice [122288] ETIM 6.0: EC002714 BES01ZW\_0.11\_2017-05-03

#### **Inductive Sensors**

## BES M08MI-PSC40B-S49G

Ordercode: BES01ZW



Rated operating distance Sn 4 mm

Repeat accuracy max. (% of Sr) 5.0 %

Switching distance marking

Temperature drift max. (% of Sr) 20 %

Tolerance Sr ±10 %

#### Remarks

EMC: EMC protection circuit required, see 825345. Burst: 1.2 IVW: 2.2 Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.

The sensor is functional again after the overload has been eliminated. Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.

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

For further information about the 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 view



#### Wiring Diagram

