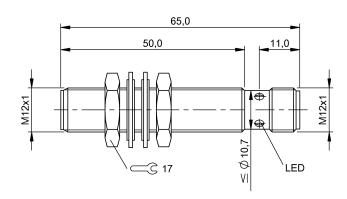
# BES M12MI-PSH80B-S04G

Ordercode: BES01ZN





# C€ □ EHI

Display/Operation				
	Dien	12V/0	nor	ation

Function indicator yes
Power indicator no

#### Electrical connection

ConnectionM12x1-Male, 4-pole, A-codedProtection against device mix-upsyesShort-circuit protectionyes

#### Electrical data

1 µF Load capacitance max, at Ue 8 mA No-load current lo max., undamped No-load current lo max., damped 12 mA 10...55 VDC Operating voltage Ub 100.0 kOhm + 2D Output resistance Ra Polarity reversal protected yes Ш Protection class 250 V AC Rated insulation voltage Ui Rated operating current le 200 mA Rated operating voltage Ue DC 24 V 100 A Rated short circuit current 10 ms Ready delay tv max. Residual current Ir max. 10 µA Residual ripple max. (% of Ue) 15 % 300 Hz Switching frequency DC-13 Utilization category 2.5 V Voltage drop static max.

#### Environmental conditions

Ambient temperature 0...60 °C
Contamination scale 3
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 min
ID rating	ID67

### Functional safety

MTTF (40 °C) 355 a

## General data

Approval/Conformity

CE
EAC

Basic standard

IEC 60947-5-2

#### Material

Housing material Brass
Material sensing surface LCP

#### Mechanical data

DimensionØ 12 x 65 mmInstallationquasi-flushSizeM12x1Tightening torque10 Nm

#### Output/Interface

Switching output PNP Normally open (NO)

#### Range/Distance

Assured operating distance Sa 5.8 mm
Effective operating distance Sr 8 mm
Hysteresis H max. (% of Sr) 15.0 %
Rated operating distance Sn 8 mm

For definitions of terms, see main catalog Subject to change without notice [183546]

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES01ZN\_0.12\_2017-05-03 **Inductive Sensors** 

# BES M12MI-PSH80B-S04G

Ordercode: BES01ZN



Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr 10.0 %

20 % ±10 %

#### Remarks

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

