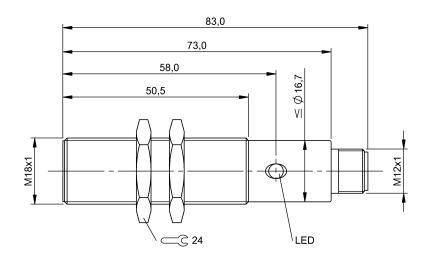
# BES M18MI2-PSC80B-S04G

Ordercode: BES0496















Function indicator yes
Power indicator no

#### Electrical connection

Connection M12x1-Male, 4-pole, A-coded Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection yes

## Electrical data

Load capacitance max. at Ue 0.5 µF Min. operating current Im 0 mA15 mA No-load current lo max., damped No-load current lo max., undamped 5 mA 10...30 VDC Operating voltage Ub Output resistance Ra 33.0 kOhm + D Protection class Ш Rated insulation voltage Ui 250 V AC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V 100 A Rated short circuit current 15 ms Ready delay tv max. Residual current Ir max. 20 µA 15 % Ripple max. (% of Ue) Switching frequency 1000 Hz DC -13 Utilization category 2.5 V Voltage drop static max.

#### Environmental conditions

Ambient temperature -25...70 °C
Contamination scale 3

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 60068-2-27, Shock EN 60068-2-6, Vibration

Protection degree

Half-sinus, 30 gn, 11 ms 55 Hz, amplitude 1 mm, 3x30

IP68

IEC 60947-5-2

#### Functional safety

MTTF (40 °C) 850 a

## General data

Approval/Conformity CE cULus EAC WEEE

#### Material

Basic standard

Housing material Brass
Material sensing surface PBT

Surface protection Nickel-free coated

### Mechanical data

Dimension Ø 18 x 83 mm
Installation for flush mounting
Size M18x1
Tightening torque 25 Nm

#### Output/Interface

Switching output PNP normally open (NO)

### Range/Distance

Assured operating distance Sa 6.4 mm

For definitions of terms, see main catalog Subject to change without notice [224081]

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES0496\_0.24\_2019-01-21

#### **Inductive Sensors**

## BES M18MI2-PSC80B-S04G

Ordercode: BES0496



Hysteresis H max. (% of Sr) 15.0 %
Rated operating distance Sn 8 mm
Real switching distance sr 8 mm
Repeat accuracy max. (% of Sr) 5.0 %
Switching distance marking
Temperature drift max. (% of Sr) 10 %
Tolerance Sr ±10 %

#### Remarks

Shielded: See installation instructions for inductive sensors with extended range 939221.

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.

#### Connector view



## Wiring Diagram

