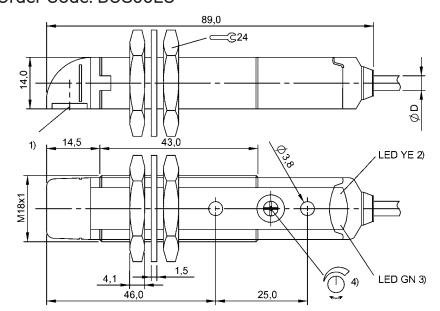
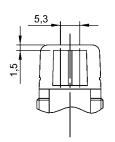
# BOS 18KW-PA-1QC-C-02 Order Code: BOS00LU

# BYLLUFF





1) Optical axis, 2) Output function, 3) Stability, 4) Sn









## Basic features

CE Approval/Conformity UKCA cULus WEEE Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Reference reflector BOS R-1 Series 18KW Flat cylinder Style Optics 90° Trademark Global

### Display/Operation

Adjuster Potentiometer 270° Display Output function- LED yellow Stability - LED green Setting Sensitivity (Sn)

## Electrical connection

Cable diameter D 4.00 mm Cable length L 2 m 0.14 mm<sup>2</sup> Conductor cross-section Connection Cable, 2.00 m, PVC Number of conductors Polarity reversal protected yes Short-circuit protection yes

#### Electrical data

No-load current lo max. at Ue 35 mA Operating voltage Ub 10...30 VDC Rated insulation voltage Ui 75 V DC Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 8 % 1000 Hz Switching frequency Turn-off delay toff max. 0.5 ms Turn-on delay ton max. 0.5 ms Voltage drop Ud max. at le 2 V

### **Environmental conditions**

Ambient temperature -25...55 °C Half-sinus, 30 g<sub>n</sub>, 11 ms, 3x6 EN 60068-2-27, Shock EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.5 mm, 3x30 min IP67 IP rating

## Functional safety

MTTF (40 °C) 774 a

## Interface

Switching output PNP normally closed (NC) PNP normally open (NO) Pins 4-2

## **Photoelectric Sensors**

# BOS 18KW-PA-1QC-C-02 Order Code: BOS00LU



#### Material

Housing material PBT PVC Material jacket Material sensing surface **PMMA** 

#### Mechanical data

Dimension Ø 18 x 89 mm Mounting part Nut M18x1 Screw M3 Tightening torque max. 1.5 Nm

## Optical features

Ambient light max. 5000 Lux Blind zone 100 mm Light type LED, red light Polarizing filter

Principle of optical operation Retroreflective sensor

Switching function, optical dark-on Wave length 660 nm

## Range/Distance

Range 0...3 m Rated operating distance Sn 3 m, Adjustable

#### Remarks

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

For additional information, refer to user's guide.

Order accessories separately.

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

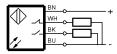
Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

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.

Subject to change without notice: 269060

# Wiring Diagrams



## Opto Symbols

