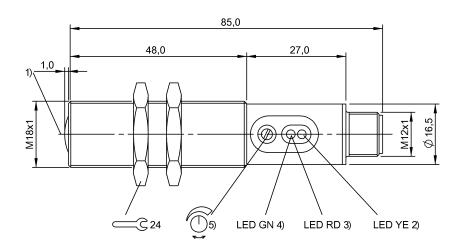


## BLE 18M-BA-1LT-S4-C BOS0074



1) Optical axis 2) Output function 3) Error 4) stability 5) Sn







Disp	iav/ U	10010	lliOII

Adjuster Potentiometer 18-turn (1x)
Setting Sensitivity (Sn)

#### Electrical connection

Connection M12x1-Connector, 4-pole, A-coded

Polarity reversal protected yes
Short-circuit protection yes

#### Electrical data

Load capacitance max. at Ue  $1\,\mu F$ MTTF (40 °C) 15 a No-load current lo max. at Ue 15 mA 10...30 VDC Operating voltage Ub Pollution degree 3 Rated insulation voltage Ui 75 V DC Rated operating current le DC 200 mA 24 V Rated operating voltage Ue DC Ready delay tv max. 10 ms Reference emitter BLS 18M-XX-1LT-.. Residual current Ir max. 50 µA Switching frequency 6000 Hz Turn-off delay toff max. 0.08 ms Turn-on delay ton max. 0.08 ms Utilization category DC -13 Voltage drop Ud max. at le 2.5 V

### Environmental conditions

Ambient temperature -10...50 °C

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 Protection class
Protection type IEC 60529

II IP65

## Functional safety

Diagnostic coverage 0 % Functional safety no Mission Time 10 a

## General data

Approval/Conformity

CE
cULus

Basic standard

IEC 60947-5-2

Series

18M

Style

Cylinder
Straight optics

### Material

Housing material Brass

Material sensing surface Glass

Surface protection nickel plates

#### Mechanical data

Dimension  $\emptyset$  18 x 86 mm

Fastening detail Nut M18x1

Smallest part typ.  $30 \mu m$  at focal point, R0 = 20...

## Optical data

Ambient light max. 2000 Lux Light type Laser Red light

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

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# BLE 18M-BA-1LT-S4-C BOS0074

Principle of optical operation Through-beam sensor (receiver) Temperature drift max. (% of Sr)

Order accessories separately.

attaching the device.

Remarks

10 %

Output/Interface

PNP Normally closed (NC) PNP Normally open (NO) Switching output

Range/Distance

Measuring range 0...50 m Range 0...50 m Rated operating distance Sn

Ripple max. (% of Ue) 15 %

50 m, Adjustable

Actuation object (target): gray card, 200 x 200, lateral approach

The sensor is functional again after the overload has been eliminated. Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for

For further information on MTTF/B10d, please refer to the MTTF / B10d Certifi-

Specification of the MTTF value and the B10d value do not represent any bin-

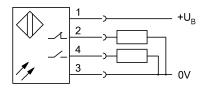
ding quality and/or life expectancy guarantees.

For additional information, refer to user's guide.

#### Connector view



## Wiring Diagram



## Symbols for Optoelectronic Sensors

