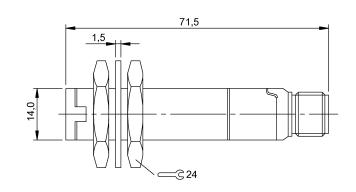
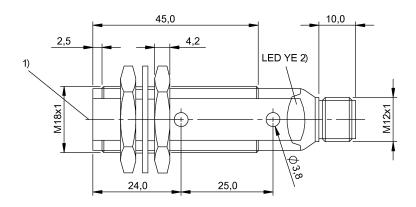
# BALLUFF





## 1) Optical axis, 2) Operating voltage





US 1TD4 for use in the secondary of a class 2 source of supply





#### **Basic features**

Approval/Conformity CE cULus EAC WEEE **Basic standard** IEC 60947-5-2 Principle of operation Photoelectric sensor BLE 18KF-..-1LT-.. Reference receiver 18KF Series Style Flat cylinder Straight optics **Trademark** Global

## Display/Operation

Display LED green: Power

### **Electrical connection**

Connector, M12x1-Male, 4-pin Connection Polarity reversal protected yes

#### **Electrical data**

Test (Emitter off) Input function No-load current lo max. at Ue 35 mA 10...30 VDC Operating voltage Ub Rated insulation voltage Ui 75 V DC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 8 %

#### **Environmental conditions**

-10...50 °C Ambient temperature EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms, 3x6 EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.5 mm, 3x30 min Protection degree IP67

## **Functional safety**

Subject to change without notice: 130034

MTTF (40 °C) 991 a

#### **Photoelectric Sensors**

# BLS 18KF-XX-1LT-S4-L **Order Code: BOS00EM**



#### Material

Housing material PBT Material sensing surface PMMA

#### Mechanical data

Dimension Ø 18 x 71.5 mm Mounting Screw M3 Nut M18x1 Tightening torque max. 1.5 Nm

## **Optical features**

Average power Po max. 390 μW Laser class per IEC 60825-1 Light type Laser red light

Principle of optical operation

Through-beam sensor (Emitter) Pulse duration t max. 6.0 μs 25 kHz Pulse frequency Wave length 650 nm

# Range/Distance

Range 0...60 m Rated operating distance Sn 60 m Adjustable

#### Remarks

For additional information, refer to user's guide.

Order accessories separately.

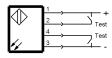
For more information about MTTF and B10d see MTTF / B10d Certificate

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 Drawings**



## **Wiring Diagrams**



# **Opto Symbols**



**Photoelectric Sensors** 

BLS 18KF-XX-1LT-S4-L **Order Code: BOS00EM** 



# **Warning Symbols**



LASER CLASS 1 per IEC 60825-1