

1) Optical axis 2) Output function 3) Sn



Display/Operation

| | |
|----------|--------------------|
| Adjuster | Potentiometer 270° |
| Setting | Sensitivity (Sn) |

| | |
|----------------------------|---------|
| Switching frequency | 1500 Hz |
| Turn-off delay toff max. | 0.33 ms |
| Turn-on delay ton max. | 0.33 ms |
| Utilization category | DC-13 |
| Voltage drop Ud max. at Ie | 2 V |

Electrical connection

| | |
|--------------------------|----------------------|
| Cable diameter D | 4.00 mm |
| Cable length | 2 m |
| Conductor cross-section | 0.14 mm ² |
| Connection type | Cable, 2.00 m, PVC |
| Number of conductors | 4 |
| Short-circuit protection | yes |

Environmental conditions

| | |
|---------------------------|-------------|
| Ambient temperature | -10...50 °C |
| Protection type IEC 60529 | IP67 |

Functional safety

| | |
|---------------------|------|
| Diagnostic coverage | 0 % |
| Functional safety | no |
| Mission Time | 10 a |

Electrical data

| | |
|-------------------------------|-------------|
| MTTF (40 °C) | 455 a |
| No-load current Io max. at Ue | 30 mA |
| Operating voltage Ub | 10...30 VDC |
| Polarity reversal protected | yes |
| Rated insulation voltage Ui | 75 V DC |
| Rated operating current Ie DC | 100 mA |
| Rated operating voltage Ue DC | 24 V |
| Ripple max. (% of Ue) | 8 % |

General data

| | |
|---------------------|--------------------|
| Approval/Conformity | CE cULus |
| Basic standard | IEC 60947-5-2 |
| Reference emitter | BLS 18KF-XX-1LT-.. |
| Series | 18KF |

| | |
|-----------|----------------------------------|
| Style | Flat cylinder Straight optics |
| Trademark | Global |

Material

| | |
|--------------------------|------|
| Housing material | PBT |
| Material jacket | PVC |
| Material sensing surface | PMMA |

Mechanical data

| | |
|------------------------|-----------------------|
| Dimension | Ø 18 x 14 mm |
| Fastening detail | Nut M18x1 Screw M3 |
| Tightening torque max. | 1.5 Nm |

Optical data

| | |
|--------------------------------|--------------------------------|
| Ambient light max. | 5000 Lux |
| Light type | Laser Red light |
| Principle of optical operation | Through-beam sensor (receiver) |

Output/Interface

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

Range/Distance

| | |
|-----------------------------|------------------|
| Measuring range | 0...60 m |
| Range | 0...60 m |
| Rated operating distance Sn | 60 m, Adjustable |

Remarks

For additional information, refer to user's guide.

Order accessories separately.

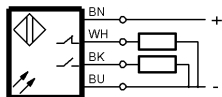
The sensor is functional again after the overload has been eliminated.

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

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Wiring Diagram



Symbols for Optoelectronic Sensors

