

1) Optical axis 2) Operating voltage



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 |

Electrical data

| | |
|-------------------------------------------------------|-------------|
| MTTF (40 °C) | 991 a |
| No-load current I ₀ max. at U _e | 35 mA |
| Operating voltage U _b | 10...30 VDC |
| Polarity reversal protected | yes |
| Pulse duration t max. | 6.0 µs |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating voltage U _e DC | 24 V |
| Ripple max. (% of U _e) | 8 % |

Environmental conditions

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

Functional safety

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

General data

| | |
|---------------------|----------------------------------|
| Approval/Conformity | CE cULus |
| Basic standard | IEC 60947-5-2 |
| Reference receiver | BLE 18KF-...-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 | Screw M3 Nut M18x1 |
| Tightening torque max. | 1.5 Nm |

Optical data

| | |
|--------------------------------|-------------------------------|
| Average power Po max. | 390 µW |
| Laser class per IEC 60825-1 | 1 |
| Light type | Laser Red light |
| Principle of optical operation | Through-beam sensor (emitter) |
| Wave length | 650 nm |

Output/Interface

| | |
|----------------|--------------------|
| Input function | Test (Emitter off) |
|----------------|--------------------|

Range/Distance

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

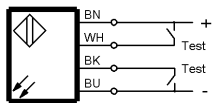
Remarks

Order accessories separately.
 For additional information, refer to user's guide.

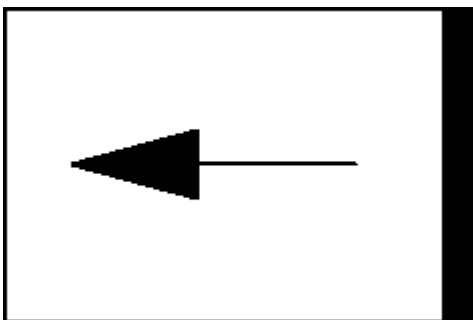
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

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

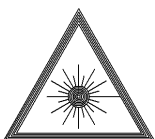
Wiring Diagram



Symbols for Optoelectronic Sensors



Warning Symbols



LASER CLASS 1 per IEC 60825-1