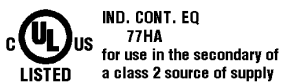


1) Display and control panel, 2) Optical axis receiver, 3) Optical axis emitter, 4) rotatable 270°



### Basic features

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Approval/Conformity</b>    | cULus<br>CE<br>EAC<br>WEEE          |
| <b>Basic standard</b>         | IEC 60947-5-2                       |
| <b>Principle of operation</b> | Photoelectric sensor                |
| <b>Series</b>                 | 26K                                 |
| <b>Style</b>                  | Square<br>Connection can be rotated |

### Display/Operation

|                 |   |
|-----------------|---|
| <b>Adjuster</b> | 2-turn potentiometer  |
| <b>Display</b>  | Output function- LED yellow<br>Error - LED red<br>Switching dist. - dig. disp.<br>Stability - LED green |
| <b>Setting</b>  | Rated switching distance (Sn)   |

### Electrical connection

|                                    |                              |
|------------------------------------|------------------------------|
| <b>Connection</b>                  | Connector, M12x1-Male, 4-pin |
| <b>Polarity reversal protected</b> | yes                          |
| <b>Short-circuit protection</b>    | yes                          |

### Electrical data

|   |             |
|---|-------------|
| <b>Load capacitance max. at Ue</b>                      | 1 µF        |
| <b>No-load current I<sub>o</sub> max. at Ue</b>         | 35 mA       |
| <b>Operating voltage U<sub>b</sub></b>                  | 10...30 VDC |
| <b>Protection class</b>                                 | II          |
| <b>Rated insulation voltage U<sub>i</sub></b>           | 75 V DC     |
| <b>Rated operating current I<sub>e</sub></b>            | 200 mA      |
| <b>Rated operating voltage U<sub>e</sub> DC</b>         | 24 V        |
| <b>Ripple max. (% of U<sub>e</sub>)</b>                 | 10 %        |
| <b>Switching frequency</b>                              | 1000 Hz     |
| <b>Turn-off delay t<sub>off</sub> max.</b>              | 0.5 ms      |
| <b>Turn-on delay t<sub>on</sub> max.</b>                | 0.5 ms      |
| <b>Utilization category</b>                             | DC -13      |
| <b>Voltage drop U<sub>d</sub> max. at I<sub>e</sub></b> | 2.4 V       |

## Environmental conditions

|                         |  |
|-------------------------|--|
| Ambient temperature     | -20...60 °C                            |
| 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

|              |       |
|--------------|-------|
| MTTF (40 °C) | 195 a |
|--------------|-------|

## Material

|                          |      |
|--------------------------|------|
| Housing material         | ABS  |
| Material sensing surface | PMMA |

## Mechanical data

|           |                 |
|-----------|-----------------|
| Dimension | 17 x 50 x 50 mm |
| Mounting  | Screw M4        |

## Optical features

|                                |                               |
|--------------------------------|-------------------------------|
| Ambient light max.             | 5000 Lux                      |
| Light spot size                | Ø 8 mm at 200 mm              |
| Light type                     | LED, red light                |
| Principle of optical operation | Diffuse sensor, triangulation |
| Special optical feature        | Background suppression        |
| Switching function, optical    | Light-on<br>dark-on           |
| Wave length                    | 660 nm                        |

## Output/Interface

|                  |   |
|------------------|---|
| Switching output | NPN normally open (NO)<br>NPN NC Pins 4-2 |
|------------------|---|

## Range/Distance

|  |                   |
|--|-------------------|
| Distance deviation 18 % max. (% of Sr) | 8 % on 90 % rem.  |
| Hysteresis H max. (% of Sr)            | 5.0 %             |
| Range                                  | 30...300 mm       |
| Rated operating distance Sn            | 300 mm Adjustable |

## Remarks

Order accessories separately.

For additional information, refer to user's guide.

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

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

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 attaching the device.

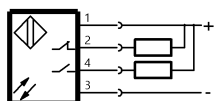
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

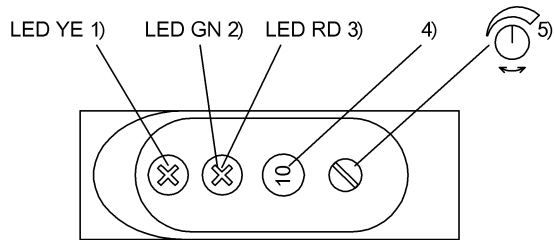
## Connector Drawings



## Wiring Diagrams



## Help Views



- 1) Output function
- 2) Stability
- 3) Error
- 4) Switching dist. dig. displ.
- 5) Sensitivity

## Opto Symbols

