

1) Output function, 2) Operating voltage, 3) Sn, light/dark, 4) Optical axis receiver, 5) Optical axis emitter

## $C \in$ ©

## Basic features

| Approval/Conformity | cULus |
| :---: | :---: |
|  | CE |
|  | EAC |
|  | WEEE |
| Basic standard | IEC 60947-5-2 |
| Principle of operation | Photoelectric sensor |
| Series | 6K |
| Style | Square |
|  | Connection $90^{\circ}$ |
| Display/Operation |  |
| Adjuster | button |
| Display | Output function- LED yellow LED green: Power |
| Setting | Light-on/dark-on |
|  | Rated switching distance (Sn) |
|  | Teach mode Stand./Dyn./Obj. |
| Electrical connection |  |
| Connection | Connector, M8x1-Male, 4-pin |
| Polarity reversal protected |  |
| Short-circuit protection | yes |

## Electrical data



## Material

\(\left.\begin{array}{ll}\hline Housing material \& ABS <br>

Material sensing surface \& PMMA\end{array}\right]\)| Mechanical data | $12 \times 41.5 \times 21.6 \mathrm{~mm}$ |
| :--- | :--- |
| Dimension | Screw M3 |

Optical features

| Ambient light max. | 5000 Lux |
| :--- | :--- |
| Beam characteristic | Divergent |
| Light spot size | $20 \times 20 \mathrm{~mm}$ at 180 mm |
| Light type | LED, red light |
| Principle of optical operation | Diffuse sensor, energetic |
| Switching function, optical | Light/dark switching |
| Wave length | 660 nm |

## Range/Distance

| Hysteresis H max. (\% of Sr) | $10.0 \%$ |
| :--- | :--- |
| Range | $0 \ldots 800 \mathrm{~mm}$ |
| Rated operating distance Sn | 800 mm Adjustable |

## Remarks

The sensor is functional again after the overload has been eliminated.
When using as a UL product the ambient temperature Ta max. must not exceed $50^{\circ} \mathrm{C}$.
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 additional information, refer to user's guide.
Do not press key using a pointed tool.
Order accessories separately.
Reference object (target): gray card, $200 \times 200,90 \%$ remission, axial approach.
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

## $\leftrightarrows$

