



1) Optical axis receiver 2) Optical axis emitter 3) Output function 4) Sn 5) Stability

- Photoelectric sensor
- Series 5K
- LED, red light
- up to 200 mm



**General attributes**

|                              |  |
|------------------------------|--|
| Adjuster                     | Potentiometer 270° (1x)                        |
| Approvals / Conformity       | cULus<br>CE                                    |
| Basic standard               | IEC 60947-5-2                                  |
| Enclosure Type per IEC 60529 | IP67   |
| Indicator                    | Stability - LED GN<br>Output function - LED YE |
| Polarity reversal protected  | yes  |
| Series                       | Series 5K                                      |
| Setting                      | Switching distance (Sn)                        |
| Short circuit protected      | yes  |
| Trademark                    | GLOBAL   |

**Electrical attributes**

|   |                    |
|---|--------------------|
| Connection type                                       | Connector          |
| Eff. operating current I <sub>e</sub>                 | 100 mA             |
| Eff. operating voltage U <sub>e</sub> DC              | 24.0 V             |
| Electrical version                                    | DC, direct current |
| No-load current max. I <sub>o</sub> at U <sub>e</sub> | 30 mA              |
| Operating voltage U <sub>B</sub> max. DC [V]          | 30.0 V             |
| Operating voltage U <sub>B</sub> min. DC [V]          | 10.0 V             |
| Ripple max. (% of U <sub>e</sub> )                    | 8 %                |
| Switching freq. f max. (at U <sub>e</sub> )           | 500 Hz             |
| Switching function                                    | NO (pin 4)         |
| Switching output                                      | NPN (1x)           |
| Turn on time t <sub>on</sub> max.                     | 1.00 ms            |
| Voltage drop U <sub>d</sub> max. (at I <sub>e</sub> ) | 1.2 V              |

**Mechanical attributes**

|   |                                     |
|---|-------------------------------------|
| Ambient temperature T <sub>a</sub> max. | 55 °C                               |
| Ambient temperature T <sub>a</sub> min. | -25 °C                              |
| Connector type                          | M8x1-S75                            |
| Detection range S <sub>d</sub>          | 50...200 mm                         |
| Eff. operating distance S <sub>r</sub>  | 200 mm                              |
| Housing material                        | PC, PBT                             |
| Length 1                                | 10.8 mm                             |
| Length 2                                | 19.5 mm                             |
| Length 3                                | 43.5 mm                             |
| Minimum operating distance              | 50 mm                               |
| Mounting type                           | Screw M3                            |
| Range S <sub>n</sub>                    | S <sub>n</sub> = 200 mm, adjustable |
| Sensing face material                   | PC                                  |
| Style                                   | Block, 90° connection               |

**Optical attributes**

|                                |                          |
|--------------------------------|--------------------------|
| Light type                     | LED, red light           |
| Principle of optical operation | Light scanner, energetic |
| Switching function, optical    | NO: light-on             |

**Additional text**

The sensor is functional again after the overload has been eliminated.  
Reference object (target): Gray card, 100 x 100  
90 % remission, axial approach.  
For additional information, refer to user's guide.  
Order accessories separately.  
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts).  
Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.

