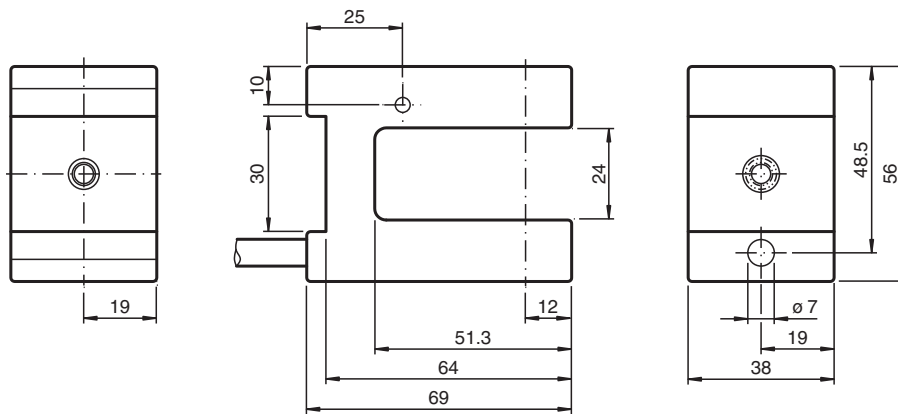




# Photoelectric slot sensor OBE24-S1-A0-Y905121



## Dimensions



## Technical Data

### General specifications

|               |                   |
|---------------|-------------------|
| Sensing range | 0 ... 24 mm       |
| Light source  | LED               |
| Light type    | infrared , 950 nm |
| Tests         | EN 60947-5-2      |

Release date: 2022-08-23 Date of issue: 2022-08-23 Filename: 905121\_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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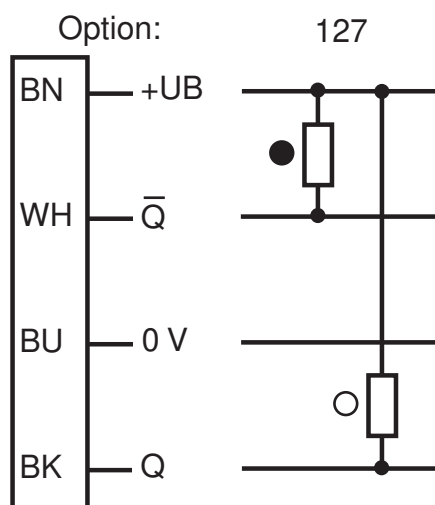
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## Technical Data

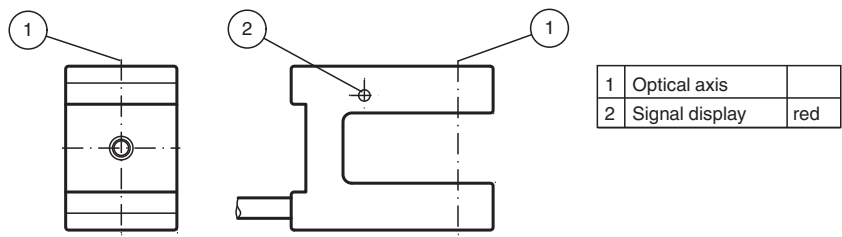
|                                   |       |                                                                     |
|-----------------------------------|-------|---------------------------------------------------------------------|
| Marking                           | CE    |                                                                     |
| Slot width                        |       | 24 mm                                                               |
| Slot depth                        |       | 24 mm                                                               |
| Ambient light limit               |       | Fluorescent lamp 3000 Lux<br>sun light 10000 Lux                    |
| <b>Indicators/operating means</b> |       |                                                                     |
| Operation indicator               |       | LED red                                                             |
| <b>Electrical specifications</b>  |       |                                                                     |
| Operating voltage                 | $U_B$ | 10 ... 60 V DC                                                      |
| Ripple                            |       | 10 %                                                                |
| No-load supply current            | $I_0$ | ≤ 25 mA                                                             |
| Time delay before availability    | $t_v$ | ≤ 10 ms                                                             |
| <b>Output</b>                     |       |                                                                     |
| Switching type                    |       | light/dark on                                                       |
| Signal output                     |       | 2 NPN complementary , Reverse polarity protection , open collectors |
| Switching voltage                 |       | max. 60 V DC                                                        |
| Switching current                 |       | max. 100 mA                                                         |
| Voltage drop                      | $U_d$ | ≤ 0.5 V                                                             |
| Switching frequency               | $f$   | 100 Hz                                                              |
| Response time                     |       | < 10 ms                                                             |
| <b>Conformity</b>                 |       |                                                                     |
| Product standard                  |       | EN 60947-5-2                                                        |
| <b>Approvals and certificates</b> |       |                                                                     |
| EAC conformity                    |       | TR CU 020/2011                                                      |
| <b>Ambient conditions</b>         |       |                                                                     |
| Ambient temperature               |       | -25 ... 55 °C (-13 ... 131 °F)                                      |
| Storage temperature               |       | -30 ... 70 °C (-22 ... 158 °F)                                      |
| <b>Mechanical specifications</b>  |       |                                                                     |
| Degree of protection              |       | IP65                                                                |
| Connection                        |       | 600 mm                                                              |
| Material                          |       |                                                                     |
| Housing                           |       | ABS                                                                 |
| Note                              |       | Normally open (NO) black wire is inside heat-shrinkable tube        |

## Connection Assignment

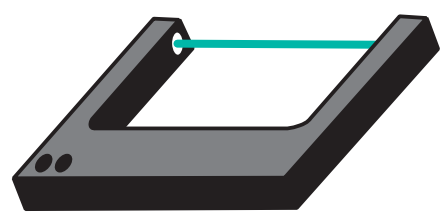


○ = Light on  
● = Dark on

Assembly



Application



## Safety Information

**Safety Instructions:**

- Read the operating instructions before commissioning
- Installation, connection and adjustments should only be undertaken by qualified personnel
- No safety component according to EU Machinery Directive, may not be used for personal protection or EMERGENCY STOP function.

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