

1) SP1 active / error, 2) SP1: recvr., light/dark, 3) SP2 active / error, 4) SP2: recvr., light/dark, 5) Pneumatics connection PK-3



Basic features

| | |
|-------------------------------|--|
| Additional features | Contamination compensation to up to 10% loss in intensity. |
| Approval/Conformity | CE WEEE |
| Basic standard | IEC 60947-5-2 |
| Principle of operation | Fork sensor |
| Series | C |
| Style | Fork Straight connection |

Display/Operation

| | |
|-----------------|--|
| Adjuster | Key (2x) |
| Display | Error - 2 x LED yellow, flashing Switchpoint 1 - LED yellow Switchpoint 2 - LED yellow |
| Setting | Light-on/dark-on Sensitivity, 2 values |

Electrical connection

| | |
|------------------------------------|------------------------------|
| Connection | Connector, M12x1-Male, 4-pin |
| Polarity reversal protected | yes |

Electrical data

| | |
|---|-------------|
| Load capacitance max. at Ue | 2.2 µF |
| No-load current I_o max. at Ue | 30 mA |
| Operating voltage U_b | 18...30 VDC |
| Rated operating voltage U_e DC | 24 V |
| Ripple max. (% of U_e) | 10 % |
| Utilization category | DC -13 |
| Voltage drop U_d max. at I_e | 1 V |

Environmental conditions

| | |
|--------------------------------|---------------------------------|
| Ambient temperature | -5...55 °C |
| EN 60068-2-27, Shock | Half-sinus, 30 gn, 11 ms, 3x6 |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| Protection degree | IP67 |

Material

| | |
|--------------------------|--------------------|
| Housing material | Aluminum, Anodized |
| Material sensing surface | PMMA |
| Surface protection | Anodized |

Mechanical data

| | |
|--------------|--------------------|
| Dimension | 18 x 100 x 93.5 mm |
| Fork opening | 50 mm |
| Mounting | Screw M5 |

Optical features

| | |
|--------------------------------|----------------------|
| Ambient light max. | 5000 Lux |
| Beam characteristic | Divergent |
| LED group per IEC 62471 | Exempt Group |
| Light beams, number | 10 |
| Light spot size | 3 x 28 mm Light exit |
| Light type | LED, red light |
| Principle of optical operation | Through-beam sensor |
| Special optical feature | Light array |
| Switching function, optical | dark-on/light-on |
| Wave length | 633 nm |

Output/Interface

| | |
|-----------|---------|
| Interface | IO-Link |
|-----------|---------|

Range/Distance

| | |
|------------------------------|-----------|
| Active length AL 1 | 28 mm |
| Hysteresis H max. | 0.4 mm |
| Repeat accuracy lateral max. | 150 µm |
| Resolution | ≤ 0.08 mm |

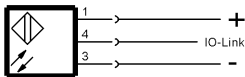
Remarks

Do not press key using a pointed tool.
 Order accessories separately.
 For additional information, refer to user's guide.
 Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

Connector Drawings



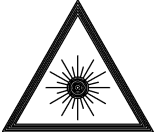
Wiring Diagrams



Opto Symbols



Warning Symbols



LED light– DO NOT LOOK INTO THE BEAM!

Exempt Group per IEC 62471:2006-07