

1) Optical axis, 2) Teach-in switchpoint, 3) Output function normally open, 4) Output function normally closed



Basic features

| | |
|------------------------|-----------------------------|
| Approval/Conformity | CE UKCA WEEE |
| Basic standard | IEC 60947-5-2 |
| Principle of operation | Fork sensor |
| Series | D |
| Style | Fork Straight connection |

Display/Operation

| | |
|----------|--------|
| Adjuster | button |
|----------|--------|

Electrical connection

| | |
|-----------------------------|-----------------------------|
| Connection | Connector, M8x1-Male, 4-pin |
| Contact, surface protection | Gold plated |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|-------------------------------------|-------------|
| No-load current I_0 max. at U_e | 40 mA |
| Operating voltage U_b | 10...30 VDC |
| Rated insulation voltage U_i | 75 V DC |
| Rated operating current I_e | 200 mA |
| Rated operating voltage U_e DC | 24 V |
| Switching frequency | 10000 Hz |
| Turn-off delay t_{off} max. | 0.05 ms |
| Turn-on delay t_{on} max. | 0.05 ms |
| Voltage drop U_d max. at I_e | 2.5 V |

Environmental conditions

| | |
|---------------------|-------------|
| Ambient temperature | -10...60 °C |
| IP rating | IP50 |

Interface

| | |
|------------------|-------------------------|
| Switching output | PNP/NPN NO/NC push-pull |
|------------------|-------------------------|

Material

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

Mechanical data

| | |
|---------------|-------------------|
| Dimension | 15 x 35 x 88.5 mm |
| Fork opening | 3 mm |
| Mounting part | Screw M4 |

Optical features

| | |
|--------------------------------|---------------------|
| Ambient light max. | 3000 Lux |
| LED group per IEC 62471 | Exempt Group |
| Light type | Infrared |
| Principle of optical operation | Through-beam sensor |
| Special optical feature | Label detection |
| Switching function, optical | dark-on/light-on |
| Wave length | 880 nm |

Range/Distance

| | |
|------------------------------|-----------|
| Hysteresis H max. | 0.4 mm |
| Repeat accuracy lateral max. | 100 µm |
| Resolution | ≤ 1.00 mm |

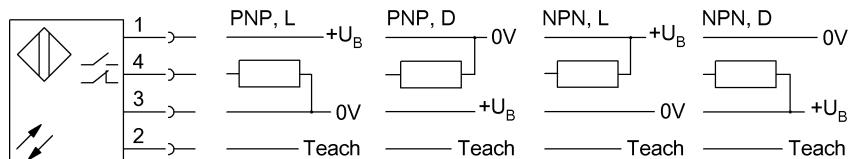
Remarks

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): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

Connector Drawings



Wiring Diagrams



Opto Symbols

