

1) Optical axis, 2) Sensitivity, 3) Light-on/dark-on, 4) Output function



IND. CONT. EQ
 23UU
 for use in the secondary of
 a class 2 source of supply



Basic features

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

Electrical connection

| | |
|------------------------------------|-----------------------------|
| Connection | Connector, M8x1-Male, 3-pin |
| Contact, surface protection | Gold plated |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Display/Operation

| | |
|-----------------|---------------------------------|
| Adjuster | Potentiometer 270° (2x) |
| Display | Output function- LED yellow |
| Setting | Light-on/dark-on Sensitivity |

Electrical data

| | |
|--|-------------|
| Load capacitance max. at Ue | 0.5 µF |
| No-load current I _o max. at Ue | 35 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 |
| Ready delay t _v max. | 200 ms |
| Residual current I _r max. | 50 µA |
| Ripple max. (% of U _e) | 10 % |
| Switching frequency | 5000 Hz |
| Turn-off delay t _{off} max. | 0.1 ms |
| Turn-on delay t _{on} max. | 0.1 ms |
| Utilization category | DC -13 |
| Voltage drop U _d max. at I _e | 3 V |

Environmental conditions

| | |
|-------------------------|---------------------------------|
| Ambient temperature | -10...60 °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 | Zinc, Die casting, Painted |
| Material sensing surface | Glass |
| Surface protection | Painted |

Remarks

Order accessories separately.

For additional information, refer to user's guide.

Factory default setting for switching output: Normally open.

Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

The sensor is functional again after the overload has been eliminated.

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.

Mechanical data

| | |
|--------------|-------------------|
| Dimension | 10 x 240 x 153 mm |
| Fork opening | 220 mm |
| Mounting | Screw M4 |

Optical features

| | |
|--------------------------------|-------------------------|
| Ambient light max. | 5000 Lux |
| Beam characteristic | Divergent |
| Light spot size | Ø 2.5 mm Light exit |
| Light type | microSPOT-LED red light |
| Principle of optical operation | Through-beam sensor |
| Smallest part typ. | 0.60 mm |
| Switching function, optical | dark-on/light-on |
| Wave length | 640 nm |

Output/Interface

| | |
|------------------|---|
| Switching output | PNP normally open/normally closed (NO/NC) |
|------------------|---|

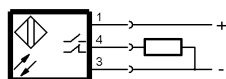
Range/Distance

| | |
|------------------------------|--------|
| Hysteresis H max. | 0.2 mm |
| Repeat accuracy lateral max. | 60 µm |

Connector Drawings



Wiring Diagrams



Opto Symbols

