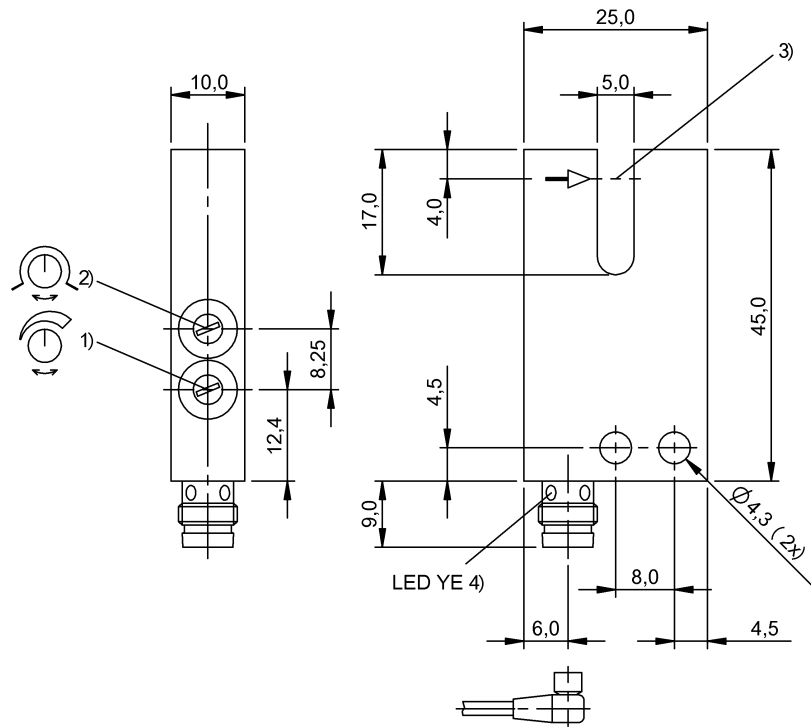




1) Sensitivity, 2) Light-on/dark-on, 3) Optical axis, 4) Output function



Basic features

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

Display/Operation

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

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current I_o max. at U_e	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 μ A
Switching frequency	3000 Hz
Turn-off delay t_{off} max.	0.167 ms
Turn-on delay t_{on} max.	0.167 ms
Voltage drop U_d max. at I_e	2.5 V

Environmental conditions

Ambient temperature	-10...60 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP65

Interface

Switching output	NPN normally open/normally closed (NO/NC)
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Material

Housing material	Zinc, Die casting, Anodized
Material sensing surface	Glass
Surface protection	Anodized

Mechanical data

Dimension	10 x 25 x 54 mm
Fork opening	5 mm
Mounting part	Screw M4

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	Ø 1.0 mm Light exit
Light type	LED, red light
Principle of optical operation	Through-beam sensor
Smallest part typ.	0.30 mm
Switching function, optical	dark-on/light-on
Wave length	640 nm

Range/Distance

Hysteresis H max.	0.1 mm
Repeat accuracy lateral max.	20 µm

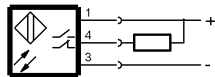
Remarks

Order accessories separately.
For additional information, refer to user's guide.
Factory default setting for switching output: Normally open.
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.
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.

Connector Drawings



Wiring Diagrams



Opto Symbols

