

1) Display and control panel, 2) Optical axis receiver, 3) Optical axis emitter, 4) rotatable 270°



**Basic features**

Approval/Conformity	cULus CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	26K
Style	Square Connection can be rotated

**Display/Operation**

Adjuster	2-turn potentiometer
Display	Output function- LED yellow Error - LED red Switching dist. - dig. disp. Stability - LED green
Setting	Rated switching distance (Sn)

**Electrical connection**

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

**Electrical data**

No-load current I <sub>o</sub> max. at U <sub>e</sub>	50 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Protection class	II
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Ripple max. (% of U <sub>e</sub> )	10 %
Switching frequency	2500 Hz
Turn-off delay t <sub>off</sub> max.	0.2 ms
Turn-on delay t <sub>on</sub> max.	0.2 ms
Utilization category	DC -13
Voltage drop U <sub>d</sub> max. at I <sub>e</sub>	2.4 V

## Environmental conditions

Ambient temperature	-20...45 °C
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP67

## Functional safety

MTTF (40 °C)	188 a
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## Interface

Switching output	PNP normally closed (NC) PNP normally open (NO) Pins 4-2
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## Material

Housing material	ABS
Material sensing surface	PMMA

## Mechanical data

Dimension	17 x 50 x 50 mm
Mounting part	Screw M4

## 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): gray card, 200 x 200, 90 % remission, axial 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.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Optical features

Ambient light max.	5000 Lux
Average power Po max.	1 mW
Beam characteristic	Collimated
Laser class per IEC 60825-1	2
Light spot size	3 x 1 mm at 300 mm
Light type	Laser red light
Principle of optical operation	Diffuse sensor, triangulation
Pulse duration t max.	10.0 µs
Pulse frequency	14 kHz
Pulse power Pp max.	4.8 mW
Special optical feature	Background suppression
Switching function, optical	Light-on dark-on
Wave length	670 nm

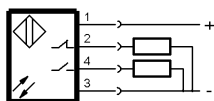
## Range/Distance

Distance deviation 18 % max. (% of Sr)	5 % on 90 % rem.
Range	50...300 mm
Rated operating distance Sn	300 mm Adjustable

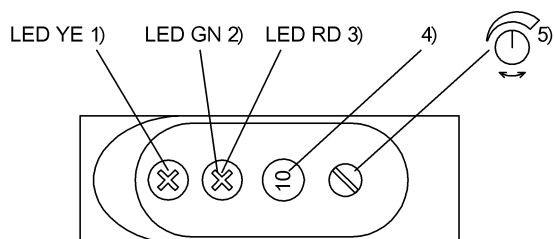
## Connector Drawings



## Wiring Diagrams



## Help Views

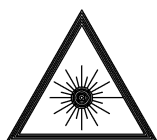


- 1) Output function
- 2) Stability
- 3) Error
- 4) Switching dist. dig. displ.
- 5) Sensitivity

## Opto Symbols



## Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10