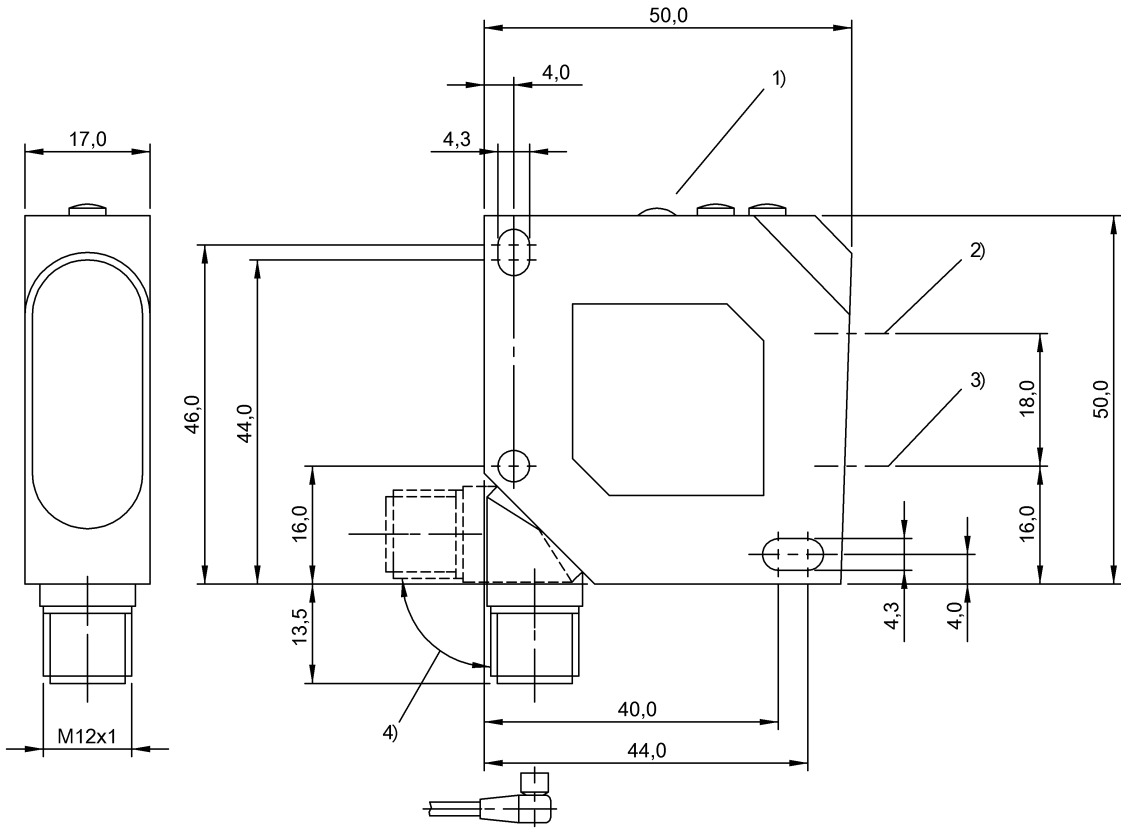




1) Display and control panel, 2) Optical axis receiver, 3) Optical axis emitter, 4) rotatable 270°



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_0 max. at U_e	50 mA
Operating voltage U_b	10...30 VDC
Protection class	II
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	200 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	10 %
Switching frequency	2500 Hz
Turn-off delay t_{off} max.	0.2 ms
Turn-on delay t_{on} max.	0.2 ms
Utilization category	DC -13
Voltage drop U_d max. at I_e	2.5 V

Environmental conditions

Ambient temperature	-20...45 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 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

General data

Approval/Conformity cULus
CE
EAC
WEEE

Basic standard IEC 60947-5-2

Principle of operation Photoelectric sensor

Series 26K

Style Square
Connection can be rotated

Material

Housing material ABS

Material sensing surface PMMA

Mechanical data

Dimension 17 x 50 x 50 mm

Mounting 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 further information about the 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 data

Ambient light max. 5000 Lux

Average power Po max. 1 mW

Beam characteristic Focus, typical at 80 mm

Laser class per IEC 60825-1 2

Light spot size Ø 0.1 mm at focal point

Light type Laser red light

Principle of optical operation Diffuse sensor, triangulation

Special optical feature Background suppression

Switching function, optical Light-on
dark-on

Wave length 670 nm

Output/Interface

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

Range/Distance

Distance deviation 18 % max. (% of Sr) 8 % on 90 % rem.

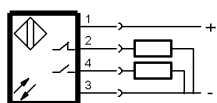
Range 30...150 mm

Rated operating distance Sn 150 mm Adjustable

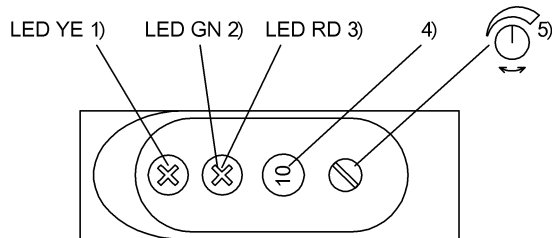
Connector Drawings



Wiring Diagrams

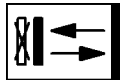


Help Views

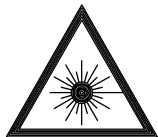


- 1) Output function
- 2) Stability
- 3) Error
- 4) Switching dist. dig. displ.
- 5) Sensitivity

Opto Symbols



Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10