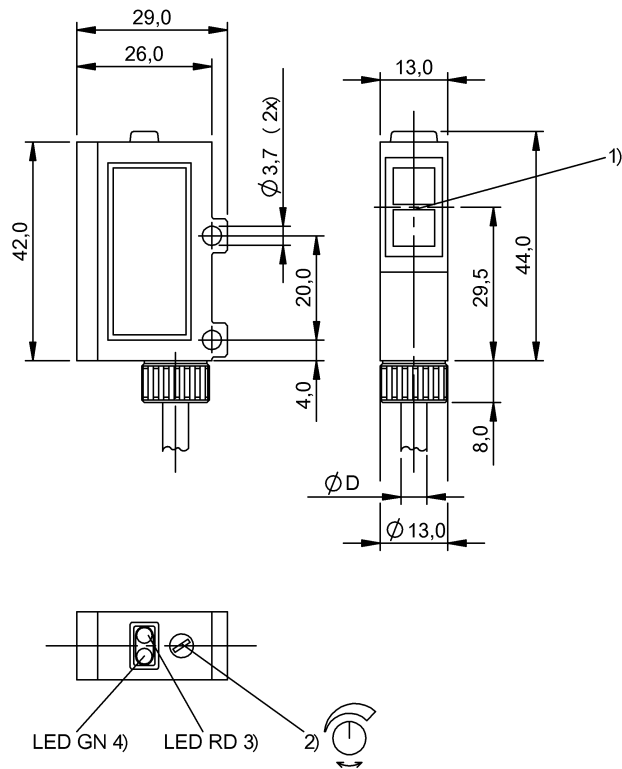




1) Optical axis, 2) Sn, 3) Output function, 4) stability



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	15K
Style	Square Connection 90°

Electrical connection

Cable diameter D	5.00 mm
Cable length L	2 m
Conductor cross-section	0.25 mm ²
Connection	Cable, 2.00 m, PVC
Number of conductors	5
Polarity reversal protected	yes
Short-circuit protection	yes

Display/Operation

Adjuster	Potentiometer 270°
Display	Output function - LED red Stability - LED green
Setting	Rated switching distance (Sn)

Electrical data

Input function	Light-on/dark-on Switching output PNP/NPN
Load capacitance max. at Ue	0.5 µF
No-load current I _o max. at Ue	30 mA
Operating voltage U _b	10...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	8 %
Switching frequency	500 Hz
Turn-off delay t _{off} max.	1 ms
Turn-on delay t _{on} max.	1 ms
Utilization category	DC -13
Voltage drop U _d max. at I _e	1.5 V

Environmental conditions

Ambient temperature	-15...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1.5 mm, 3x2 h
IP rating	IP66

Interface

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

Housing material	ABS
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	13 x 52 x 29 mm
Mounting part	Screw M3

Optical features

Ambient light max.	3000 Lux
Beam characteristic	Focused
Light spot size	Ø 1 mm at focal point
Light type	LED, red light
Principle of optical operation	Diffuse sensor, triangulation
Special optical feature	Fixed focus
Switching function, optical	Light/dark switching
Wave length	660 nm

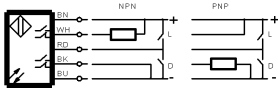
Range/Distance

Hysteresis H max. (% of S _r)	20.0 %
Range	6...12 mm
Rated operating distance S _n	12 mm, Adjustable
Repeat accuracy max. (% of S _r)	5.0 %

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, 100 x 100, 90 % remission, axial approach.

Wiring Diagrams (Schematic)



Opto Symbols

