

Electrical data

Input function	Key disable on/off Teach Contrast (switching point)
Load capacitance max. at Ue	1 µF
No-load current I_o max. at Ue	30 mA
Operating voltage U_b	10...30 VDC
Protection class	II
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	200 ms
Residual current I_r max.	10 µA
Ripple max. (% of U_e)	15 %
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	2 V

Environmental conditions

Ambient temperature	-10...55 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	334 a
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Remarks

Do not press key using a pointed tool.

Order accessories separately.

For additional information, refer to user's guide.

Reference object (target): Color bar card, 100 x 100, contrast yellow/white and blue/black, lateral approach of color bars.

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.

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.

Interface

Duration of time function	20 ms
Switching output	PNP normally open/normally closed (NO/NC)

Material

Housing material	Zinc, Die casting, Powder coated Aluminium
Material sensing surface	Glass
Surface protection	Powder coated

Mechanical data

Dimension	12 x 50 x 42.5 mm
Mounting part	Screw M4

Optical features

Ambient light max.	10000 Lux
Beam characteristic	Focused
Light spot size	Ø 3.5 mm at 19 mm
Light type	White light
Principle of optical operation	Diffuse sensor, focused
Special optical feature	Coaxial Optics
Switching function, optical	Light/dark switching
Wave length	400...700 nm

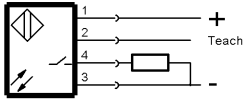
Range/Distance

Range	17...21 mm
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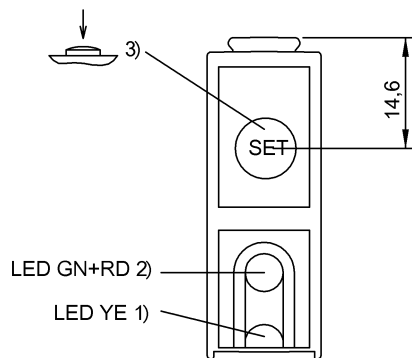
Connector Drawings



Wiring Diagrams



Help Views



- 1) Output function
- 2) stability/error
- 3) Sn, light/dark, T on/off

Opto Symbols

