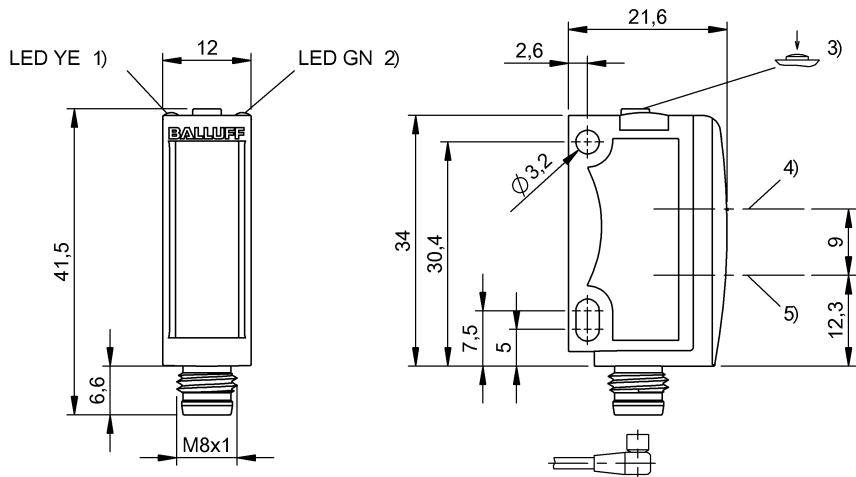




1) Output function, 2) Operating voltage, 3) Sn, light/dark, 4) Optical axis receiver, 5) Optical axis emitter



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Operating mode	SIO Mode IO-Link Mode
Principle of operation	Photoelectric sensor
Series	6K
Style	Square Connection 90°

Display/Operation

Adjuster	button
Display	LED yellow: Light received Stability - LED green
Setting	Teach mode Stand./Dyn. Sensitivity (Sn) Light-on/dark-on

Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Key disable on/off Same function as button
No-load current I_o max. at U_e	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
Ripple max. (% of U_e)	10 %
Switching frequency	1000 Hz
Turn-off delay t_{off} max.	0.5 ms
Turn-on delay t_{on} max.	0.5 ms
Voltage drop U_d max. at I_e	3.5 V

Environmental conditions

Ambient temperature	-20...60 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP67, IP69
Storage temperature	-20...80 °C

Functional safety

MTTF (40 °C)	503 a
--------------	-------

IO-Link

IO-Link Profil IDs	0x0004 SSP2.1
	0x0005 SSP2.2
	0x0006 SSP2.3
	0x4000 Identification and Diagnosis
IO-Link function classes	0x800C Transducer Disable
	0x8101 Locator

Interface

Baud rate	COM2 (38.4 kBaud)
Interface	IO-Link-Device 1.1.3
Process data IN	1 byte
Process data OUT	1 byte
Switching output	PNP/NPN/IO-Link NO/NC

Material

Housing material	ABS
Material sensing surface	PMMA

Mechanical data

Dimension	12 x 34 x 21.6 mm
Mounting part	Screw M3

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	70 x 70 mm at 800 mm
Light type	LED, red light
Principle of optical operation	Diffuse sensor, energetic
Switching function, optical	Light/dark switching
Wave length	632 nm

Range/Distance

Hysteresis H max. (% of Sr)	10.0 %
Range	0...800 mm
Rated operating distance Sn	800 mm, Adjustable

Remarks

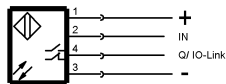
The sensor is functional again after the overload has been eliminated.
Order accessories separately.
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams (Schematic)



Opto Symbols

