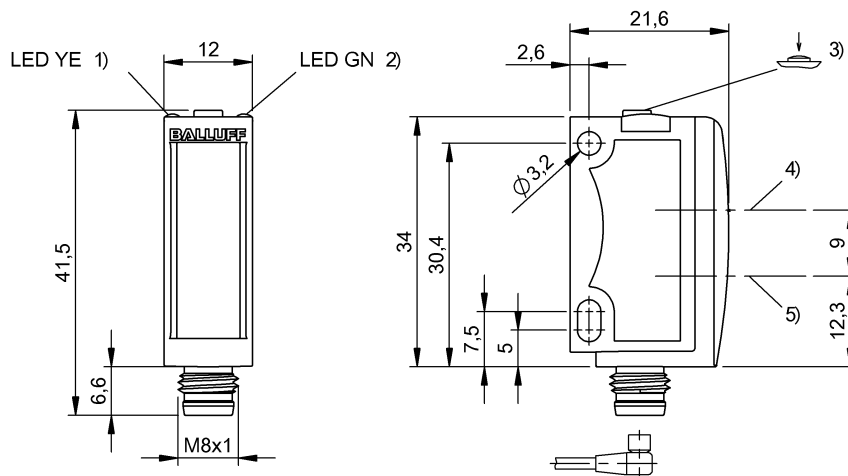


BOS 6K-PU-RD10-S75 BOS01LL



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



Display/Operation

Adjuster	Key (1x)
Setting	Light-on/dark-on Rated switching distance (Sn) Teach mode Stand./Dyn./Obj.

Electrical connection

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

Electrical data

Hysteresis H max. (% of Sr)	10.0 %
MTTF (40 °C)	499 a
No-load current I _o max. at U _e	30 mA
Operating voltage U _b	10...30 VDC
Rated operating current I _e DC	100 mA
Rated operating voltage U _e DC	24 V
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	2.4 V

Environmental conditions

Ambient temperature	-20...60 °C
IP rating per DIN 40050	IP69K
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0.0 %
Functional safety	no
Mission Time	10 a

General data

Approval/Conformity	cULus CE
Basic standard	IEC 60947-5-2
Series	6K
Style	Square Connection 90°

Material

Housing material	ABS
Material sensing surface	PMMA

Mechanical data

Dimension	12 x 41.5 x 21.6 mm
Fastening detail	Screw M3

Optical data

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light type	LED Red light
Wave length	660 nm

BOS 6K-PU-RD10-S75 BOS01LL

Output/Interface

Input function	Same function as button Key disable on/off
Switching output	PNP Normally open/Normally closed (NO/NC)

Range/Distance

Measuring range	0...800 mm
Range	0...800 mm
Rated operating distance S_n	800 mm, Adjustable
Ripple max. (% of U_e)	12 %

Remarks

The sensor is functional again after the overload has been eliminated. When using as a UL product the ambient temperature T_a max. must not exceed 50°C.

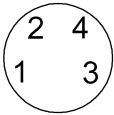
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

For additional information, refer to user's guide.
Do not press key using a pointed tool.
Order accessories separately.
Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

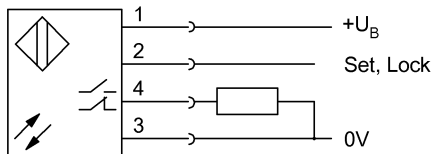
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

