

Ripple max. (% of Ue)	10 %
Switching frequency	250 Hz
Turn-off delay toff max.	1.2 ms
Turn-on delay ton max.	1.2 ms
Voltage drop Ud max. at Ie	2 V

Ambient temperature	-40...60 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating per DIN 40050	IP69K
Protection degree	IP67

MTTF (40 °C) 156 a

Application	Distance measurement
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Approval/Conformity	CE cULus EAC Ecolab WEEE
Basic standard	IEC 60947-5-2, IEC 60947-5-7
Principle of operation	Photoelectric distance sensor
Series	23K
Style	Square Connection can be rotated

Pulse frequency	45 kHz
Pulse power Pp max.	930.0 mW
Switching function, optical	Light/dark switching
Wave length	655 nm

Output/Interface

Analog output	Analog, voltage 0...10 V
Output characteristic	linear rising/falling
Switching output	PNP/NPN/Auto-Detect normally open/normally closed (NO/NC)

Range/Distance

Accuracy	±0.6 %FS
Hysteresis H max. (% of Sr)	0.3 %
Range	100...5000 mm
Rated operating distance Sn	5 m Adjustable
Repeat accuracy	0.024 %FS
Resolution	≤ 5.0 mm

Remarks

For additional information, refer to user's guide.
 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.

Material

Housing material	ABS
Material sensing surface	PMMA

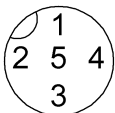
Mechanical data

Dimension	51 x 23 x 52.4 mm
Mounting	Screw M4
Tightening torque max.	1.5 Nm

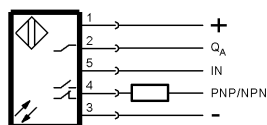
Optical data

Ambient light max.	5000 Lux
Beam characteristic	Collimated
Laser class per IEC 60825-1	1
Light spot size	5.5 x 7 mm at 5 m
Light type	Laser red light
Principle of optical operation	Light time-of-flight
Pulse duration t max.	0.008 µs

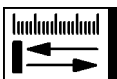
Connector view



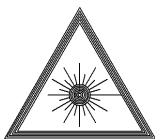
Wiring Diagram



Symbols for Optoelectronic Sensors



Warning Symbols



LASER CLASS 1 per IEC 60825-1