

Functional safety

MTTF (40 °C)	639 a
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General data

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	18KF
Style	Flat cylinder Straight optics
Trademark	Global

Material

Housing material	PBT
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 18 x 77 mm
Mounting	Nut M18x1 Screw M3
Tightening torque max.	1.5 Nm

Optical data

Ambient light max.	5000 Lux
Average power Po max.	390 µW
Beam characteristic	Divergent
Laser class per IEC 60825-1	1
Light type	Laser red light
Principle of optical operation	Diffuse sensor, energetic
Pulse duration t max.	6.0 µs
Pulse frequency	25 kHz
Wave length	650 nm

Output/Interface

Switching output	NPN normally open (NO) NPN NC Pins 4-2
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Range/Distance

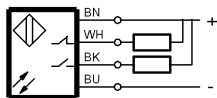
Range	0...350 mm
Rated operating distance Sn	350 mm Adjustable

Remarks

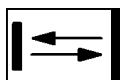
The sensor is functional again after the overload has been eliminated.
Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.
For additional information, refer to user's guide.
Order accessories separately.
For further information about the MTTF and B10d see MTTF / B10d certificate

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.

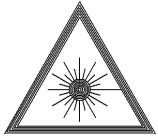
Wiring Diagrams



Opto Symbols



Warning Symbols



LASER CLASS 1 per IEC 60825-1