

1) Set sensor 2) Mounting plate 3) Status indicator 4) Operating voltage/mode 5) Ultrasonic transducer axis



## Display/Operation

Adjuster	button
Setting	Key disable on/off Factory setting (Reset) Output curve rising/falling Output curve window

## Electrical connection

Connection	M8x1 connector, 4-pin
Polarity reversal protected	yes

## Electrical data

Current draw max.	25 mA
Input function	Synchronization signal
Load resistance RL max. (Analog I)	500 Ohm
Operating voltage Ub	20...30 VDC
Rated operating voltage Ue DC	24 V
Synchronization	external, any number of sensors
Ultrasonic Frequency	380 kHz

## Environmental conditions

Ambient temperature	-25...70 °C
Protection degree	IP67
Storage temperature	-40...85 °C

## Functional safety

MTTF (40 °C)	338 a
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## General data

Application	Distance measurement
Approval/Conformity	CE EAC WEEE
Operating mode	Analog measurement (output curve)
Series	R06K1

## Material

Housing material	ABS
Material sensing surface	PU foam epoxy resin glass
Surface protection	nickel plated

## Mechanical data

Dimension	12 x 42.5 x 21.6 mm
Mounting	Screw M3

## Output/Interface

Analog output	Analog, current 4...20 mA linear rising/falling
Output characteristic	linear rising/falling

## Range/Distance

Range	20...250 mm
Rated operating distance Sn	150 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.056 mm

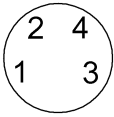
## Remarks

For additional information, refer to user's guide.  
Order accessories separately.  
Do not press key using a pointed tool.  
Reference object for Sn: tube  $\varnothing$ 10mm. Max. range refers to the aligned plate.  
The sensor is functional again after the overload has been eliminated.

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.

## Connector view



## Wiring Diagram

