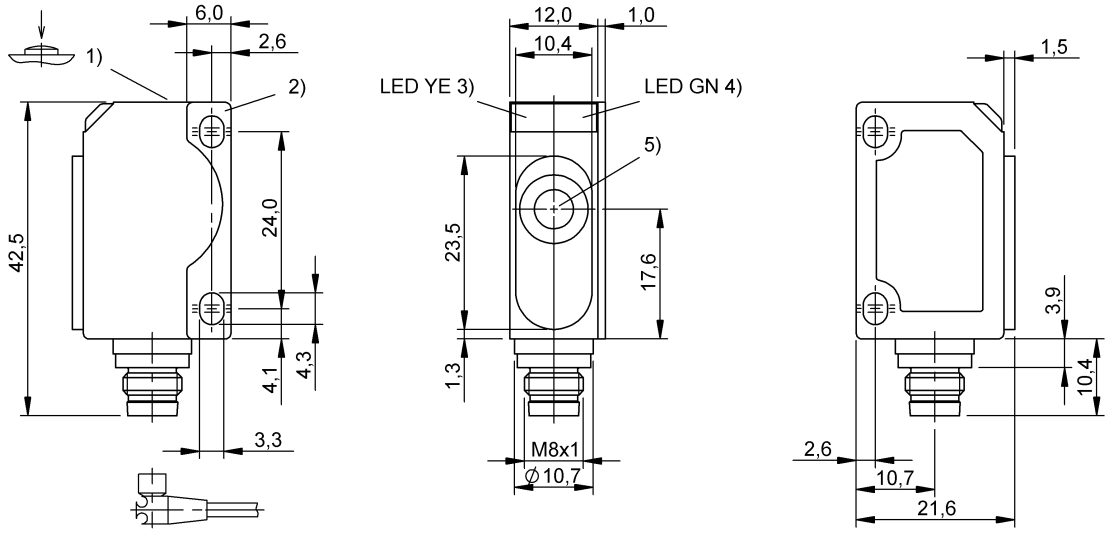
Ultrasonic Sensors

BUS R06K1-XA-02/015-S75G
Order Code: BUS004K



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

Basic features

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

Display/Operation

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

Electrical connection

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

Electrical data

Current draw max.	25 mA
Input function	Synchronization signal
Load resistance RL min. (Analog V)	100 kOhm
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)	516 a

Material

Housing material	ABS
Material sensing surface	PU foam/Epoxy resin/Glass

Mechanical data

Dimension	12 x 42.5 x 21.6 mm
Mounting	Screw M3

Output/Interface

Analog output	Analog, voltage 0…10 V
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

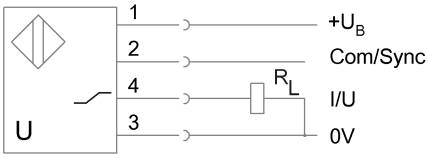
For additional information, refer to user's guide.
Order accessories separately.
Do not press key using a pointed tool.
Reference object for Sn: tube ø10mm. Max. range refers to the aligned plate.
The sensor is functional again after the overload has been eliminated.
For more information about MTTF and 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



Technical Drawings

