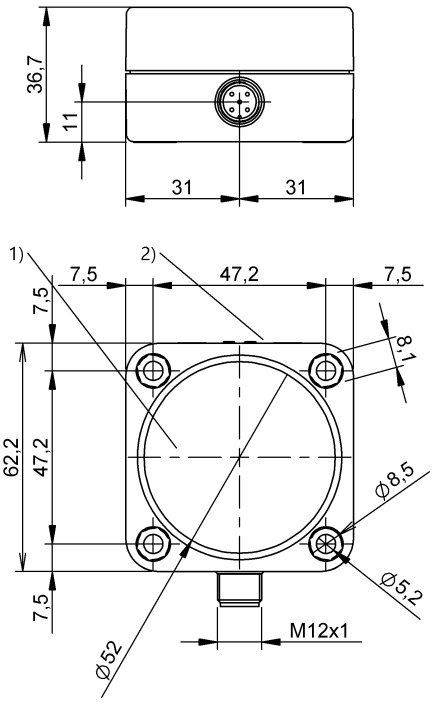
Ultrasonic Sensors

BUS Q62K1-GPXI-60/600-S92K
Order Code: BUS006E



1) Ultrasonic transducer, 2) Display and control panel

Basic features

Application	Distance measurement Object detection
Approval/Conformity	cULus CE WEEE UKCA
Operating mode	IO-Link Reflectionlight scanner (switching point) Refl.light scanner (window) Retro-reflector
Series	Q62K1

Display/Operation

Adjuster	Key (2x)
Display	2x tricoloured - LED

Electrical connection

Connection	M12x1-Male, 5-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw max.	60 mA
Hysteresis H max.	100 mm
Input function	SIO mode/IO-Link mode
Operating voltage Ub	9...30 VDC
Output current max.	100 mA
Rated operating voltage Ue DC	24 V
Switching frequency	3 Hz
Synchronization	internal, max. 10 sensors
Ultrasonic Frequency	80 kHz

Environmental conditions

Ambient temperature	-25...70 °C
IP rating	IP67
Storage temperature	-40...85 °C

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Functional safety

MTTF (40 °C)	389 a

Interface

Interface	IO-Link 1.0
Interface setting option	Switch. point (2x for window) SIO mode/IO-Link mode Measured value filter Hysteresis Filter strength (10 levels) Operating mode Foreground suppression range Normally open/Normally closed Factory setting (Reset)
Process data OUT	Distance value Switching state
Process data cycle min.	60.8 ms
Switching output	PNP/NPN NO/NC push-pull

Material

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

Mechanical data

Dimension	62.2 x 62.2 x 32.7 mm
Mounting part	4-hole screw mount Screws M8

Range/Distance

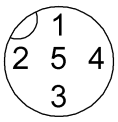
Measuring range	600...8000 mm
Rated operating distance Sn	6000 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.180 mm

Remarks

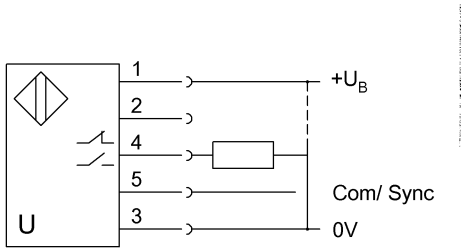
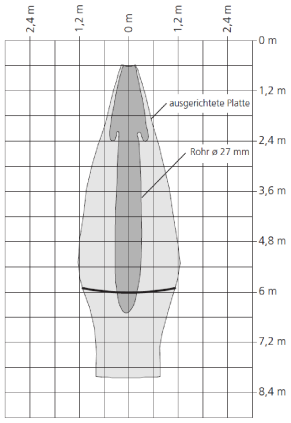
For additional information, refer to user's guide.
Order accessories separately.
Do not press key using a pointed tool.
Reference object for Sn: tube ø27mm. Max. range refers to the aligned plate.
The sensor is functional again after the overload has been eliminated.
For more information about MTTF and 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 (Schematic)



Technical Drawings