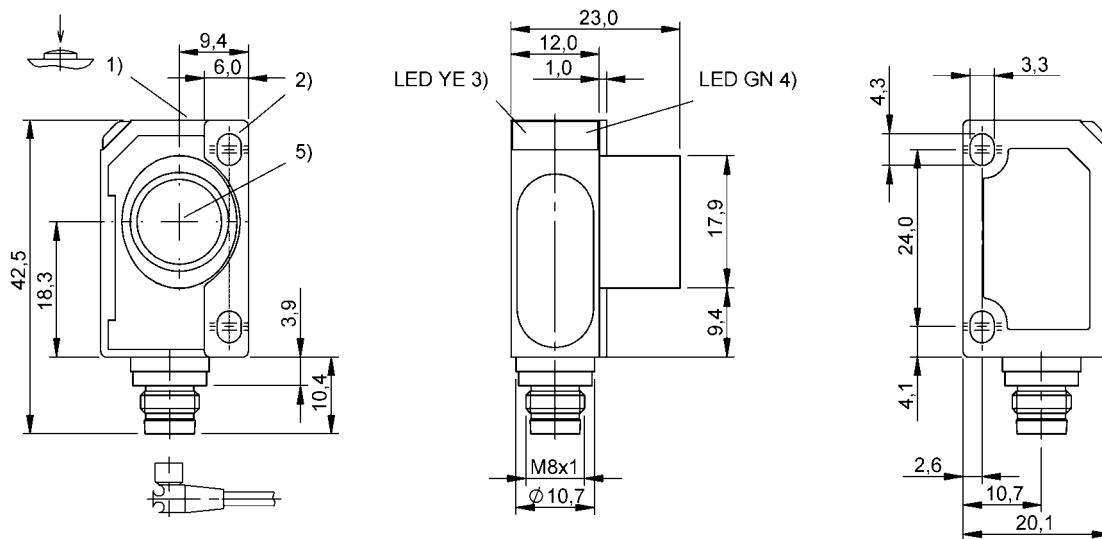


## Ultrasonic Sensors

BUS R06K1-NPX-03/025-S75G

Order Code: BUS0058

**BALLUFF**

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



## Basic features

Application	Object detection
Approval/Conformity	CE WEEE UKCA
Operating mode	Refl.light scanner (window) Reflectionlight scanner (switching point) Retro-reflector
Series	R06K1

## Display/Operation

Adjuster	button
Display	Output function- LED yellow Mode - LED green, flashing LED green: Power Switch.function - LED green flashing
Setting	Factory setting (Reset) Key disable on/off Normally open/Normally closed Switching distance, 2 values Operating mode

## Electrical connection

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

## Electrical data

Current draw max.	35 mA
Hysteresis H max.	2 mm
Input function	Synchronization signal
Operating voltage Ub	20...30 VDC
Output current max.	200 mA
Rated operating voltage Ue DC	24 V
Switching frequency	31 Hz
Synchronization	external, any number of sensors
Ultrasonic Frequency	320 kHz

## Environmental conditions

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

## Functional safety

MTTF (40 °C)	1657 a
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## Interface

Switching output	NPN normally open/normally closed (NO/NC)
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## Material

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

#### Mechanical data

Mounting part Screw M3

#### Range/Distance

Measuring range	30...350 mm
Rated operating distance Sn	250 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.069 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.

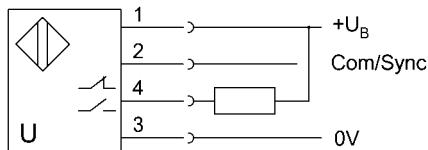
For more information about MTTF and B10d see MTTF / B10d Certificate

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



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## Technical Drawings

