



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

- Ultrasonic sensor
- R06K1
- Synchronizable



**General attributes**

Adjuster  
Approvals / Conformity  
Area of application  
Enclosure Type per IEC 60529  
Indicator

Input function  
Polarity reversal protected  
Series  
Setting

MTTF (40°C)

**Electrical attributes**

Analog output  
Connection type  
Current draw max.  
Eff. operating voltage U<sub>e</sub> DC  
Load res. R<sub>L</sub> max. (analog I)  
Mode

Operating voltage U<sub>B</sub> max. DC [V]  
Operating voltage U<sub>B</sub> min. DC [V]  
Output characteristic  
Response time max.  
Ripple  
Synchronization  
Ultrasonic frequency  
Value range analog

Key (1x)  
CE  
Distance measurement  
IP67  
Object in range - LED YE  
Mode - LED GN flash  
Power - LED GN  
Synchronization signal  
yes  
R06K1  
Key disable on/off  
Factory setting (reset)  
Output curve rise/fall  
Characteristic curve window  
338 a

Analog I  
Connector  
25 mA  
24.0 V  
500 Ohm  
Analog measurement (characteristic curve)  
30 V DC  
20 V DC  
Linear rising/falling  
24 ms  
±10 %  
ext., any number of sensors  
380 kHz  
4...20 mA

**Mechanical attributes**

Connector type M8x1-S75  
Housing material ABS  
Mounting type Screw M3  
Operating temperature max. +70 °C  
Operating temperature min. -25 °C  
Range max. 250 mm  
Range min. 20 mm  
Range S<sub>n</sub> 150 mm  
Repeat accuracy ±0.15 %  
Resolution 0.056 mm  
Sensing face material PU foam, epoxy resin, glass  
Storage temperature max. 85 °C  
Storage temperature min. -40 °C  
Style Block, 90° connection  
Surface protection Nickel-plated  
Temperature compensation yes  
Temperature drift typ. < 2 %

**Remarks**

For additional information, refer to user's guide.  
Order accessories separately.  
Do not press key using a pointed tool.  
Reference object for S<sub>n</sub>: tube ø10mm. Max. range refers to the oriented plate.  
The sensor is functional again after the overload has been eliminated.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Ultrasonic sensor

**BUS R06K1-XB-02/015-S75G**  
**BUS004J**

**BALLUFF**

