Off-highway long range ultrasonic sensor.
Designed for reliability

Ultrasonic sensors are the technology of choice in agricultural and off-highway machinery for distance measurement applications and allow for robust, non-contact measurement. Baumer ultrasonic sensor technology and designed for reliability improves end customer uptime and productivity. The proven Baumer design and full industry compliance reduce R&D cost and time to market.

- High reliability design tested according to the highest off-highway industry standards
- HeavyDuty connector
- Rectangular flat back-side mounting
- Platform incorporates over 30 years ultrasonic sensor know-how
- Best in class measurement performance
- Ideal platform for customer specific developments. On request CAN, 12/24 V vehicle power supply, multi-target data acquisition are possible

Simple and easy design in due to full industry compliance (EN ISO 14982, ISO 15003 Sec 5.13, ISO 13766, EN 13309, EN 60947-5-7)

Superior blind range of 100 mm due to unique two transducer design

High reliability design reduces sensor fails and warranty issues

Platform supports measurement distances up to 6000 mm depending on application (customer specific developments only)

Industry typical connectors reduce likelihood of connector failures
Some application fields for Baumer long range ultrasonic sensor.

### Continuous fill level (e.g. combine grain tank)

### Boom height control (multi target output possible) / customer specific projects

### Distance to ground / customer specific projects

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#### Part number | Electrical specification | Mechanical interface | Ambient conditions | Output function
---|---|---|---|---
U750.DB5-UA1Z.93D/E005 (for continuous fill level applications) | Supply voltage: 4.8 V ... 5.2 V  
Supply current (Avg): ≤ 120 mA  
Output load: ≥ 10 kOhm / ≤ 0.1 µF | Automotive grade rectangular plastic housing  
115 × 70 × 48 mm (without connector)  
Mating Connector: DEUTSCH DT06-4S | Storage temperature: −40 °C ... +85 °C  
Operating temperature: −20 °C ... +70 °C | Sensing range: 100 mm ... 2300 mm  
Output voltage: 0.5 V ± 0.1 V  
(@100 mm ± 5 mm)  
to 4.5 V ± 0.1 V  
(@2300 mm ± 5 mm)  
Diagnostic: 0.15 V ... 0.35 V

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