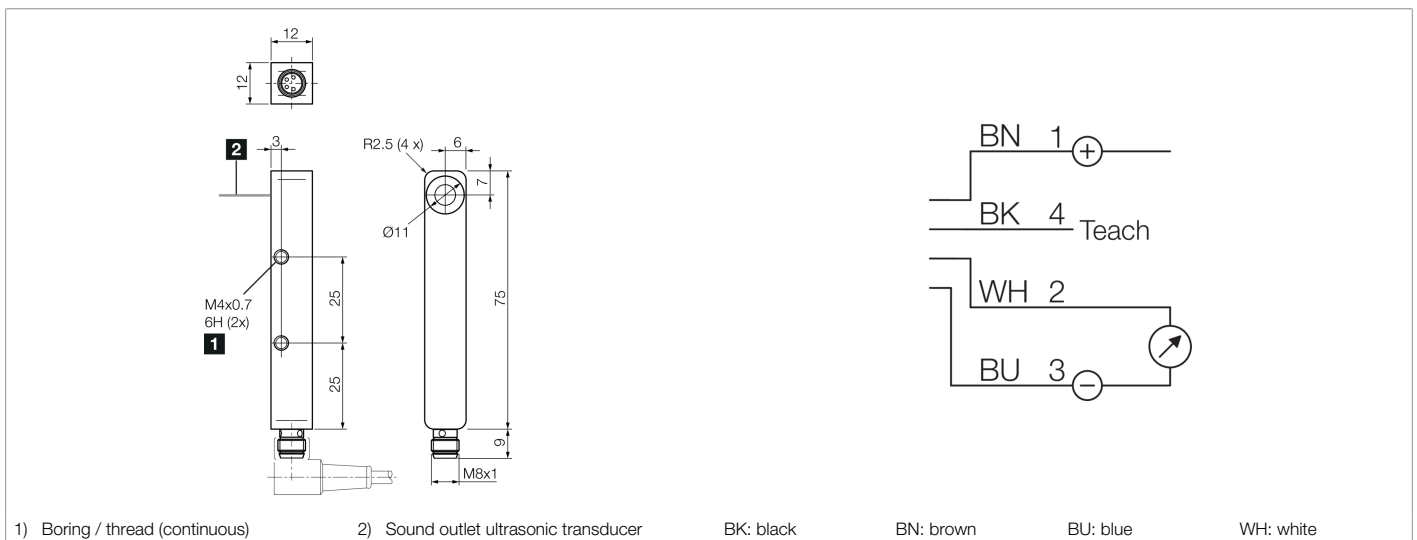




210963
US Q12 M 200 IU-T4
Ultrasonic sensor

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- 3 different teach modes
- Low installation depth
- Very narrow detection beam / small blind zone
- Switching functions: Closer/opener, window function teachable
- Resistant to dirt
- Small design
- Robust metal housing
- Protection class IP 67



| Function | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |

| Technical data (typ.) | +20°C, 24 V DC |
|--------------------------------------|--|
| Service voltage | 18 ... 30 V DC |
| No-load current (max.) | 40 mA (24 V DC) |
| Inverse polarity protection | yes, except for the analog output PIN2 |
| Short-circuit protection | Yes |
| Insulation voltage endurance | 500 V |
| Housing dimensions | 12 x 12 x 75 mm |
| Housing length | 75 mm |
| Housing height | 12 mm |
| Housing width | 12 mm |
| Transmission exit | radial |
| Assembly distance (sensor to sensor) | 60 mm |
| Housing material | Aluminum (Black, Anodized) |
| Material | Epoxy resin, PUR (Transducer surface) |
| Protection class | III, operation on protective low voltage |
| Approvals | UL |
| Operating principle | Ultrasonic sensor, Ultrasonic sensor |
| Evaluation | digital, analog (With IO-Link) |
| Design | Cuboid design |
| Characteristics | IO-Link |
| Parallel operation possible | Yes |



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US Q12 M 200 IU-T4
Ultrasonic sensor

| Technical data (typ.) | +20°C, 24 V DC |
|---------------------------------------|---|
| Operation modes | STANDARD, Master / slave function (synchronization or multiplex operation) |
| Functions | Teach, Out 1, IO-Link, multiplex, synchronization (PIN 4), Analog 0...10V / 4...20mA / 0...20mA (Pin 2) |
| Switching output | Push-pull, 150 mA, NO/NC, switchable |
| Max. switch current | 150 mA |
| Voltage drop (max.) | 2 V |
| Analog output | 0 ... 10 V, 4 ... 20 mA |
| Interface | IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile) |
| Load resistance | > 10 K Ω (0 ... 10 V) / < 400 Ω (4 ... 20 mA / 0 ... 20 mA) |
| Nominal switching distance (Sn) | 200 mm |
| Range | 20 ... 200 mm (adjustable) |
| Adjustment range | 20 ... 200 mm (Teach in) |
| Resolution | 1.0 mm (Adjusted measuring range/4095 (analog output)) |
| Standardized measuring plate | 100 x 100 mm |
| Switching hysteresis (max.) | 2 ... 20 mm (Adjustable by IO-Link) |
| Reproducibility | < 0.5 mm |
| Linearity error | \pm 0.4 % |
| Sensitivity adjustment | Remote teach |
| Display | LED 1x yellow - Switching output |
| Measuring frequency | 400 Hz |
| Ultrasonic frequency | 400 kHz |
| Switching frequency | 20 Hz |
| Readiness delay (max.) | 300 ms |
| Shock/vibration load | 30 g, 11 ms / 10 ... 55 Hz, 1.0 mm |
| Ambient temperature during operation | -25 ... +70 °C |
| Temperature drift | 0.2 %/K (uncompensated) |
| Temperature drift | < 1 %/Sn (compensated) |
| Protection type | IP 67 |
| Connection | Connector, M8, 4-pin |
| Connection cable | TK ... /4 |
| More information / accessories | https://www.di-soric.com/210963 |