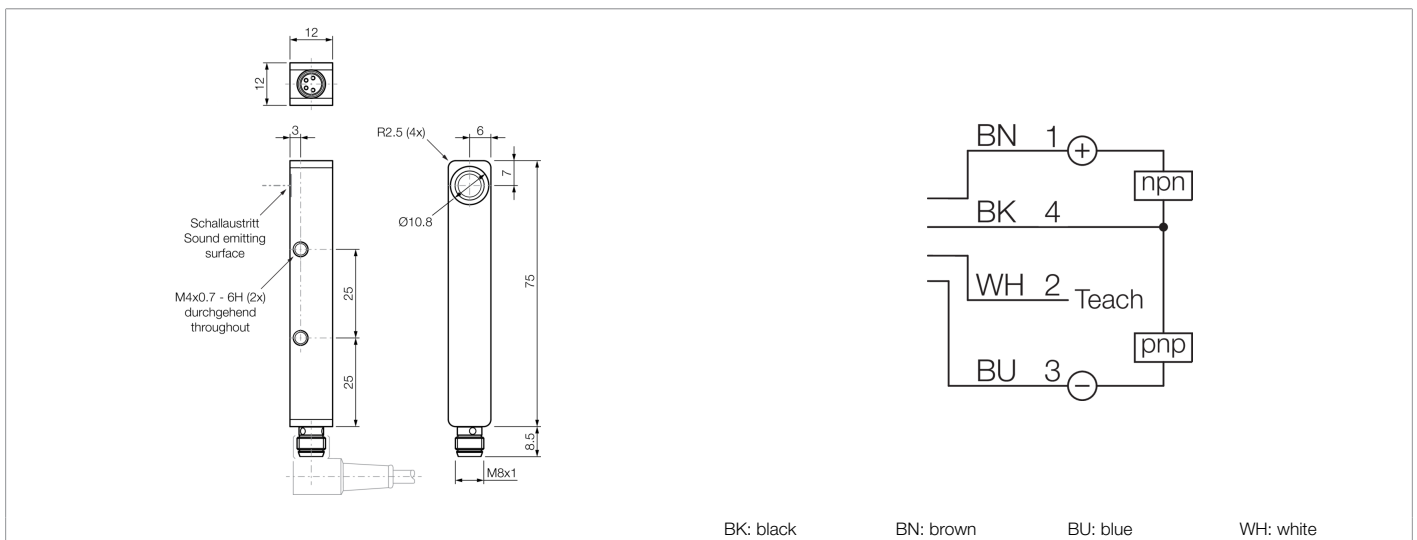




**210964**  
**US Q12 M 400 G3-T4**  
**Ultrasonic sensor**

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- 3 different teach modes
- Working range adjustable
- 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                                      |
| Short-circuit protection             | Yes                                      |
| Insulation voltage endurance         | 500 V                                    |
| Housing dimensions                   | 12 x 12 x 75 mm                          |
| Transmission exit                    | radial                                   |
| Assembly distance (sensor to sensor) | 250 mm                                   |
| Housing material                     | Aluminum (Black, Anodized)               |
| Material                             | Epoxy resin, PUR (Transducer surface)    |
| Weight                               | 30 g                                     |
| Protection class                     | III, operation on protective low voltage |
| Operating principle                  | Ultrasonic sensor, Ultrasonic barrier    |
| Evaluation                           | digital                                  |
| Design                               | Cuboid design                            |
| Characteristics                      | IO-Link                                  |
| Parallel operation possible          | No                                       |
| Functions                            | Teach (Pin 2), Out 1, IO-Link (Pin 4)    |
| Switching output                     | Push-pull, 150 mA, NO/NC, switchable     |
| Max. switch current                  | 150 mA                                   |



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**US Q12 M 400 G3-T4**  
**Ultrasonic sensor**

| Technical data (typ.)                | +20°C, 24 V DC  |
|--------------------------------------|---|
| Voltage drop (max.)                  | 2 V   |
| Interface                            | IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)                           |
| Nominal switching distance (Sn)      | 400 mm  |
| Range                                | 40 ... 400 mm   |
| Adjustment range                     | 40 ... 400 mm (Teach in)  |
| Resolution                           | 1,0 mm  |
| Standardized measuring plate         | 100 x 100 mm  |
| Switching hysteresis (max.)          | 2 ... 20 mm (Adjustable by IO-Link)   |
| Reproducibility                      | < 0,5 mm  |
| Sensitivity adjustment               | Remote teach  |
| Display                              | LED Green - Status, 1x yellow - Switching output                              |
| Ultrasonic frequency                 | 300 kHz   |
| Switching frequency                  | < 10 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       | <a href="https://www.di-soric.com/210964">https://www.di-soric.com/210964</a> |