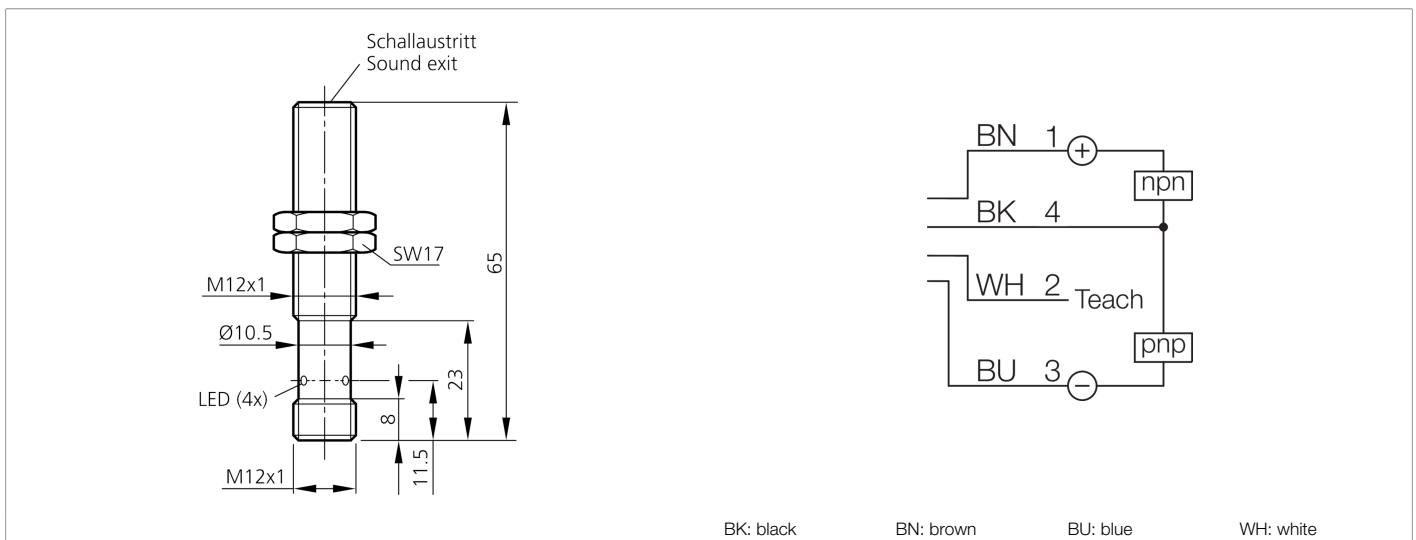




**212883**  
**US 12 M 400 G3-B4**  
**Ultrasonic sensor**

- 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                   | M12 x 65 mm                              |
| Thread                               | M12 x 1                                  |
| Housing length                       | 65 mm                                    |
| Transmission exit                    | axial                                    |
| Assembly distance (sensor to sensor) | 200 mm                                   |
| Housing material                     | Brass (CuZn, nickel-plated)              |
| Material                             | Epoxy resin, PUR (Transducer surface)    |
| Weight                               | 18 g                                     |
| Protection class                     | III, operation on protective low voltage |
| Operating principle                  | Ultrasonic sensor, Ultrasonic barrier    |
| Evaluation                           | digital (With IO-Link)                   |
| Design                               | Thread                                   |
| Characteristics                      | IO-Link                                  |
| Parallel operation possible          | No                                       |
| Scope of delivery                    | Sensor, 2 x M12 nuts                     |



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| Technical data (typ.)                 | +20°C, 24 V DC   |
|---------------------------------------|--|
| Functions                             | Teach (Pin 2), Out 1, IO-Link (Pin 4)  |
| Switching output                      | Push-pull, 150 mA, NO/NC, switchable   |
| Max. switch current                   | 150 mA   |
| 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          | 200 x 200 mm   |
| Switching hysteresis (max.)           | 2 ... 20 mm (Adjustable by IO-Link)  |
| Reproducibility                       | < 1.5 mm   |
| Sensitivity adjustment                | Remote teach   |
| Display                               | LED 1x 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, M12, 4-pin  |
| Connection cable                      | VKHM ... /4  |
| <b>More information / accessories</b> | <b><a href="https://www.di-soric.com/212883">https://www.di-soric.com/212883</a></b> |