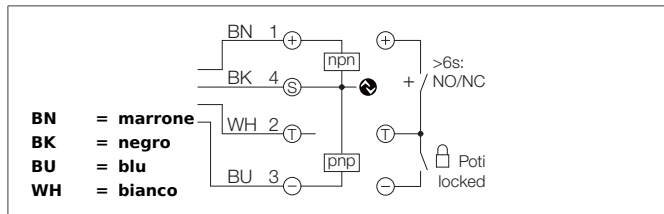


# US Q12 M 400 HP G3-T4

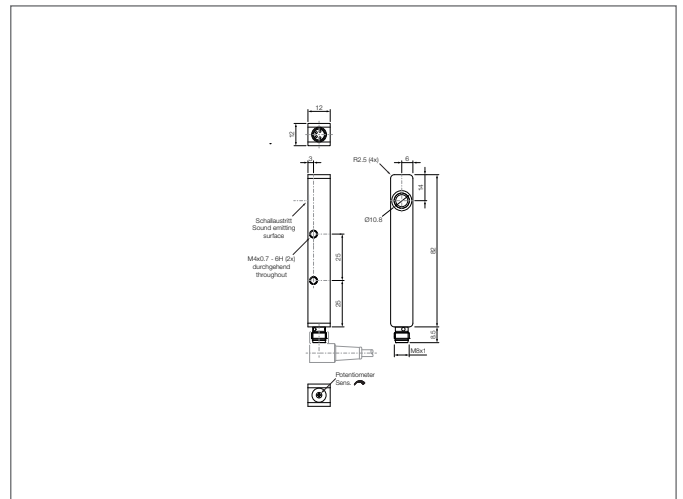
## Ultrasonic Sensor

- IO-Link
- Background suppression
- As a ultrasonic sensor or -barrier configurable
- Scanning range adjustable
- Narrow detection beam / small blind zone
- Switching funktion NO/NC switchable
- Insensitive to dirt
- Small design
- Robust metal casing
- Protection class IP 67



### Safety instructions

The Instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments.  
 These instruments shall exclusively be used by qualified personnel.



| TECHNICAL INFORMATION (typ.)    | +20°C, 24V DC  |
|---------------------------------|--|
| Operating principle             | Diffuser with Background Suppression, configurable via IO-Link |
| Evaluation                      | digital  |
| Size                            | 12 x 12 x 82 mm (Dimensions)                                   |
| Design                          | cuboid design  |
| Sending axis                    | radial   |
| Nominal switching distance (Sn) | 400 mm   |
| Standardized measuring plate    | 100 x 100 mm   |
| Service voltage                 | 18 ... 30 V DC   |
| No-load current                 | < 40 mA, (24 V DC)   |
| Operating distance              | 40 ... 400 mm adjustable                                       |
| Resolution                      | 1 mm (IO-Link)   |
| Sensitivity adjustment          | potentiometer  |
| Mounting distance               | > 250 mm (Sensor to sensor)                                    |
| Switching output                | Push pull, 150 mA, NO/NC, switchable                           |
| Max. power operating            | 150 mA   |
| Switching hysteresis            | 2 mm, via IO-Link adjustable up to 20 mm                       |
| Sound frequency                 | 300 kHz  |
| Interface                       | IO-Link, V1.1, COM2 (38,4kBd), Smart Sensor Profile            |
| Inverse polarity protection     | Yes  |
| Display                         | LED yellow (Display output)                                    |
| Voltage drop                    | < 2,0 V  |
| Switching frequency             | < 10 Hz  |
| Short-circuit protection        | yes  |

## US Q12 M 400 HP G3-T4 Ultrasonic Sensor



| <b>TECHNICAL INFORMATION (typ.)</b> | <b>+20°C, 24V DC</b>                            |
|-------------------------------------|---|
| Reproducibility                     | < 0,5 mm  |
| Linearity error                     | < 0,8 % / Sn max.                               |
| Readiness delay                     | < 300 ms  |
| Ambient temperature, operation      | -10 ... +70 °C                                  |
| Temperature drift                   | 0.2 %/K (uncompensated), < 1 %/Sn (compensated) |
| Insulation voltage endurance        | 500 V   |
| Protection class                    | IP 67   |
| Protection degree                   | III, operation on protective low voltage        |
| Casing material                     | Aluminium black anodized                        |
| Material                            | epoxy resin, PUR (Transducer surface)           |
| Connection                          | Connector, M8, 4-poled                          |
| Connecting cable                    | TK ... /4                                       |