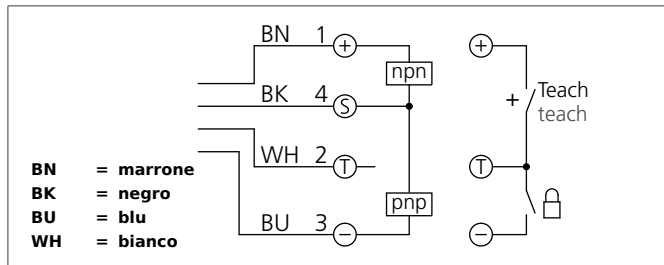


# US 18 M 1500 G3-B4

## Ultrasonic Sensor

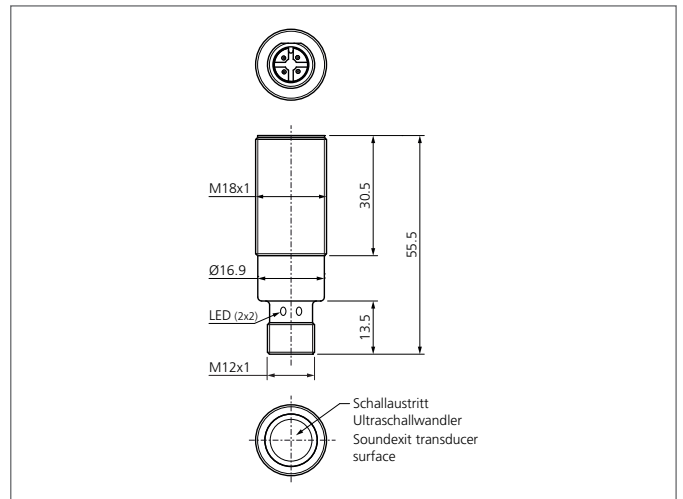


- IO-Link
- 3 different teach modes
- Insensitive to dirt
- Metal casing with connector M12
- Protection class IP 67



### 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             |  | Retroreflective sensor, Diffuser, Window mode, configurable via IO-Link |
| Evaluation                      |  | digital   |
| Size                            |  | M18 x 1 (thread)  |
| Design                          |  | screw   |
| Sending axis                    |  | axial   |
| Nominal switching distance (Sn) |  | 1500 mm   |
| Standardized measuring plate    |  | 100 x 100 mm  |
| Service voltage                 |  | 18 ... 30 V DC  |
| No-load current                 |  | < 30 mA, (24 V DC)  |
| Operating distance              |  | 120 ... 1500 mm   |
| Adjustment range                |  | 150 ... 1500 mm   |
| Sensitivity adjustment          |  | Remote teach  |
| Mounting distance               |  | > 400 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                 |  | 200 kHz   |
| Interface                       |  | IO-Link, V1.1, COM2 (38,4kBd), Smart Sensor Profile                     |
| Shock-/vibration load           |  | 10 ... 55 Hz / 1,0 mm / 30 g  |
| Display                         |  | 2 x LED yellow (Display output), 2 x LED green (status)                 |
| Voltage drop                    |  | < 2,5 V   |
| Switching frequency             |  | > 5 Hz ... < 10 Hz  |

## US 18 M 1500 G3-B4 Ultrasonic Sensor



| <b>TECHNICAL INFORMATION (typ.)</b> | <b>+20°C, 24V DC</b>                     |
|-------------------------------------|--|
| Reproducibility                     | < 1 mm                                   |
| Readiness delay                     | < 300 ms                                 |
| Ambient temperature, operation      | -25 ... +70 °C                           |
| Temperature drift                   | 0.2 %/K (uncompensated)                  |
| Insulation voltage endurance        | 500 V                                    |
| Protection class                    | IP 67                                    |
| Protection degree                   | III, operation on protective low voltage |
| Casing material                     | brass nickel plated                      |
| Material                            | epoxy resin, PUR (Transducer surface)    |
| Connection                          | Connector, M12 x 1, 4-poled              |