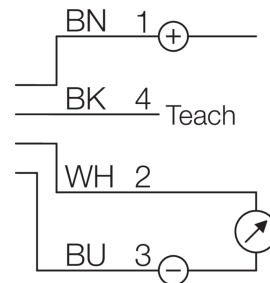
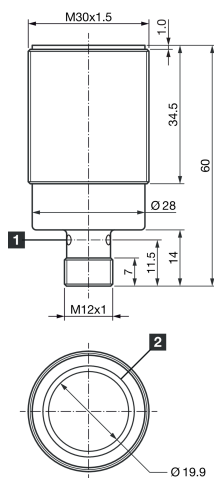


## Ultrasonic sensor

- 



WH: white



## +20°C, 24 V DC

di-soric GmbH & Co. KG · Steinbeisstraße 6 · DE-73660 Urbach · [www.di-soric.com](http://www.di-soric.com)



## 210594

### US 30 M 3000 IU-B4

#### Ultrasonic sensor

| Technical data (typ.)                | +20°C, 24 V DC                                                                                                                                              |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation modes                      | STANDARD, Master / slave function (synchronization or multiplex operation)                                                                                  |
| Scope of delivery                    | Sensor, 2 x M30 nuts                                                                                                                                        |
| Functions                            | Analog 0...10V / 4...20mA / 0... 20mA, Teach, switching output push-pull, PNP, NPN (Pin 2), Teach , push-pull, PNP, NPN, synchronization, multiplex (PIN 4) |
| Switching output                     | Push-pull, 100 mA, NO/NC, switchable                                                                                                                        |
| Max. switch current                  | 100 mA                                                                                                                                                      |
| Voltage drop (max.)                  | 2 V                                                                                                                                                         |
| Analog output                        | 0 ... 10 V, 4 ... 20 mA (0 ... 20 mA IO-Link)                                                                                                               |
| Interface                            | IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)                                                                                                         |
| Load resistance                      | > 10 K $\Omega$ (0 ... 10 V) / < 400 $\Omega$ (4 ... 20 mA / 0 ... 20 mA)                                                                                   |
| Nominal switching distance (Sn)      | 3000 mm                                                                                                                                                     |
| Range                                | 300 ... 3000 mm                                                                                                                                             |
| Adjustment range                     | 300 ... 3000 mm (Teach in)                                                                                                                                  |
| Resolution                           | 1.0 mm (Adjusted measuring range/4095 (analog output))                                                                                                      |
| Standardized measuring plate         | 200 x 200 mm                                                                                                                                                |
| Switching hysteresis (max.)          | 5 ... 50 mm (adjustable via IO-Link / 15 mm factory setting)                                                                                                |
| Reproducibility                      | 2.0 mm                                                                                                                                                      |
| Linearity error                      | $\pm$ 0.2 %                                                                                                                                                 |
| Sensitivity adjustment               | Remote teach                                                                                                                                                |
| Display                              | LED 1x Green - Status, 1x yellow - Switching output                                                                                                         |
| Measuring frequency                  | 33 Hz                                                                                                                                                       |
| Ultrasonic frequency                 | 125 kHz                                                                                                                                                     |
| Switching frequency                  | 3 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                    | < 1.5 %/Sn (compensated)                                                                                                                                    |
| Protection type                      | IP 67                                                                                                                                                       |
| Connection                           | Connector, M12, 4-pin                                                                                                                                       |
| Connection cable                     | VKHM ... /4                                                                                                                                                 |
| More information / accessories       | <a href="https://www.di-soric.com/210594">https://www.di-soric.com/210594</a>                                                                               |