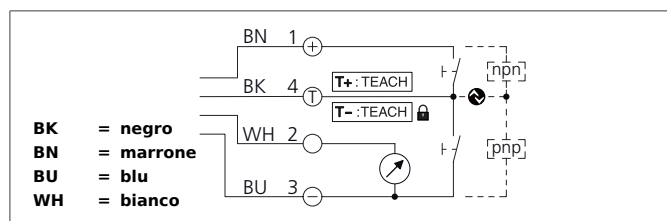


US 30 M 3000 IU-B4

Ultrasonic Sensor



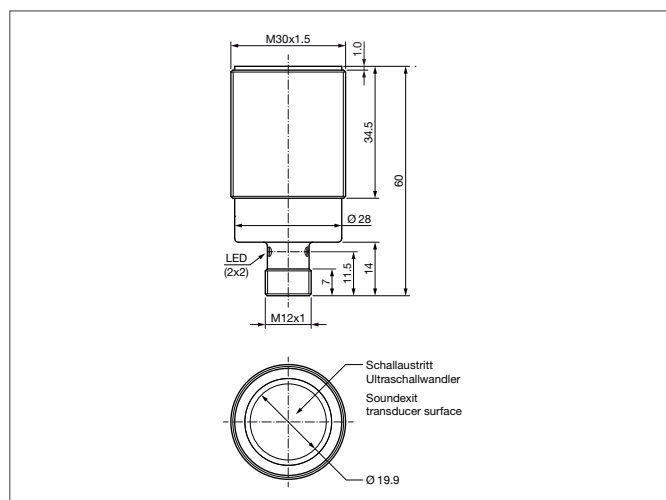
- IO-Link
- Can be configured as ultrasonic diffuser, ultrasonic barrier or for the analog distance measurement
- 3 different teach modes
- Scanning range adjustable
- Analog output 4 ... 20 mA / 0 ... 10 V, depending on load
- Insensitive to dirt
- Insensitive to ambient noise
- Scanning does not depend on surface
- 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.)	
Operating principle	+20°C, 24V DC Retroreflective sensor, Diffuser, Window mode, analog distance measurement, configurable via IO-Link
Evaluation	analog, digital (via IO-Link)
Operating modes	Default, Master/Slave function (synchronization or multiplex mode)
Size	M30 x 1,5 (thread)
Design	screw
Sending axis	axial
Nominal switching distance (Sn)	3000 mm
Standardized measuring plate	200 x 200 mm
Service voltage	18 ... 30 V DC
No-load current	< 45 mA, (24 V DC)
Operating distance	300 ... 3000 mm adjustable
Resolution	0,02 ... 0,66 mm (analog), 1 mm (IO-Link)
Sensitivity adjustment	Remote teach
Mounting distance	> 500 mm (Sensor to sensor)
Switching output	Push pull, 100 mA
Max. power operating	100 mA
Switching hysteresis	5 ... 50 mm (15 mm preset), via IO-Link adjustable
Analog output	0 ... 10 V, 4 ... 20 mA
Sound frequency	125 kHz
Linearity analog output	< 0,2 % / Sn max.
Interface	IO-Link, V1.1, COM2 (38,4kBd), Smart Sensor Profile

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TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Inverse polarity protection		Yes
Display		2 x LED yellow (Display output), 2 x LED green (status)
Voltage drop		< 2,0 V
Switching frequency		3 Hz
Short-circuit protection		yes
Reproducibility		2 mm
Readiness delay		< 300 ms
Ambient temperature, operation		-25 ... +70 °C
Temperature drift		0.2 %/K (uncompensated), < 1.5 %/Sn (compensated)
Load resistance		> 10 K Ω (0 ... 10 V) / < 400 Ω (4 ... 20 mA)
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
Scope of delivery		2 x M30 nuts