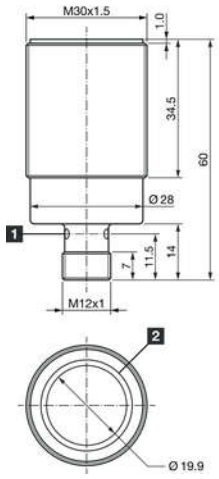
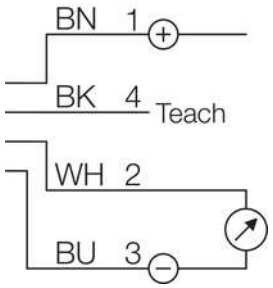
210594
US 30 M 3000 IU-B4
Ultrasonic sensor

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- Analog current output
- 3 different teach modes
- Resistant to dirt
- Metal casing
- Plug connector M12
- Protection class IP 67







1) LED 2 x 2 2) Sound outlet ultrasonic transducer BK: black BN: brown BU: blue WH: white

Function

IO-Link | mA | V | c UL us LISTED | CE | UKCA

Technical data (typ.)	+20°C, 24 V DC
Service voltage	18 … 30 V DC
No-load current (max.)	45 mA (24 V DC)
Inverse polarity protection	yes, except for the analog output PIN2
Short-circuit protection	Yes
Insulation voltage endurance	500 V
Housing dimensions	M30 x 60 mm
Thread	M30 x 1.5
Housing length	60 mm
Transmission exit	axial
Assembly distance (sensor to sensor)	500 mm
Transmission angle of the object	10°
Housing material	Brass (CuZn, nickel-plated)
Material	Epoxy resin, PUR (Transducer surface)
Weight	70 g
Protection class	III, operation on protective low voltage
Approvals	UL
Operating principle	Ultrasonic sensor, Ultrasonic barrier
Evaluation	digital, analog (With IO-Link)
Design	Thread
Characteristics	IO-Link

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US 30 M 3000 IU-B4
Ultrasonic sensor

Technical data (typ.)	+20°C, 24 V DC
Parallel operation possible	Yes
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 KΩ (0 … 10 V) / < 400 Ω (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	± 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	https://www.di-soric.com/210594

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