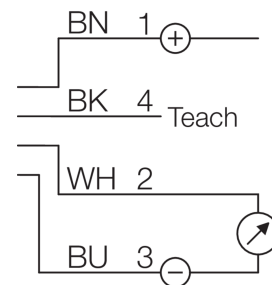
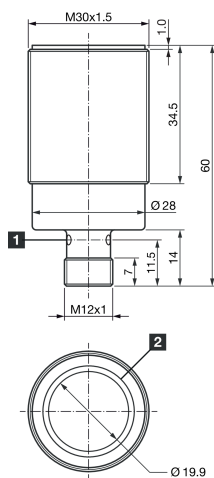




210594
US 30 M 3000 IU-B4
Ultrasonic sensor

- 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



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
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)
Protection class	III, operation on protective low voltage
Operating principle	Ultrasonic sensor, Ultrasonic barrier
Evaluation	digital, analog (With IO-Link)
Design	Thread
Characteristics	IO-Link
Operation modes	STANDARD, Master / slave function (synchronization or multiplex operation)
Scope of delivery	Sensor, 2 x M30 nuts



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US 30 M 3000 IU-B4
Ultrasonic sensor

Technical data (typ.)	
Functions	+20°C, 24 V DC 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.)	2,0 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)	3.000 mm
Range	300 ... 3.000 mm
Adjustment range	300 ... 3.000 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
Switching frequency	125 kHz
Switching frequency	3,0 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	