

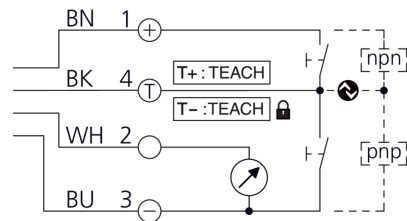
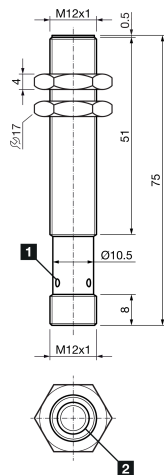


210063

US 12 M 400 IU-B4

Ultrasonic sensor

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- Working range adjustable
- Analog current output
- Resistant to dirt
- Insensitive to ambient noise
- Measuring does not depend on surface
- High frequency of measuring sequence
- High resolution



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.)	40 mA (24 V DC)
Insulation voltage endurance	500 V
Thread	M12 x 1
Transmission exit	axial
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
Scope of delivery	Sensor, 2 x M12 nuts
Switching output	Push-pull, 150 mA
Voltage drop (max.)	2.5 V
Analog output	0 ... 10 V, 4 ... 20 mA
Interface	IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)
Load resistance	> 10 KΩ (0 ... 10 V) / < 400 Ω (4 ... 20 mA)
Nominal switching distance (Sn)	400 mm
Range	40 ... 400 mm



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Adjustment range		40 ... 400 mm (Teach in)
Resolution		1.0 mm
Standardized measuring plate		100 x 100 mm
Switching hysteresis (max.)		2 ... 20 mm (Adjustable by IO-Link)
Sensitivity adjustment		Remote teach
Display		LED Green - Operation, yellow - Switching output
Ultrasonic frequency		300 kHz
Switching frequency		10 Hz
Readiness delay (max.)		300 ms
Shock/vibration load		30 g, 10 ... 55 Hz / 0.5 mm
Ambient temperature during operation		-25 ... +70 °C
Temperature drift		0.2 %/K (uncompensated)
Protection type		IP 67
Connection		Connector, M12, 4-pin
Connection cable		VKHM ... /4
More information / accessories		https://www.di-soric.com/210063