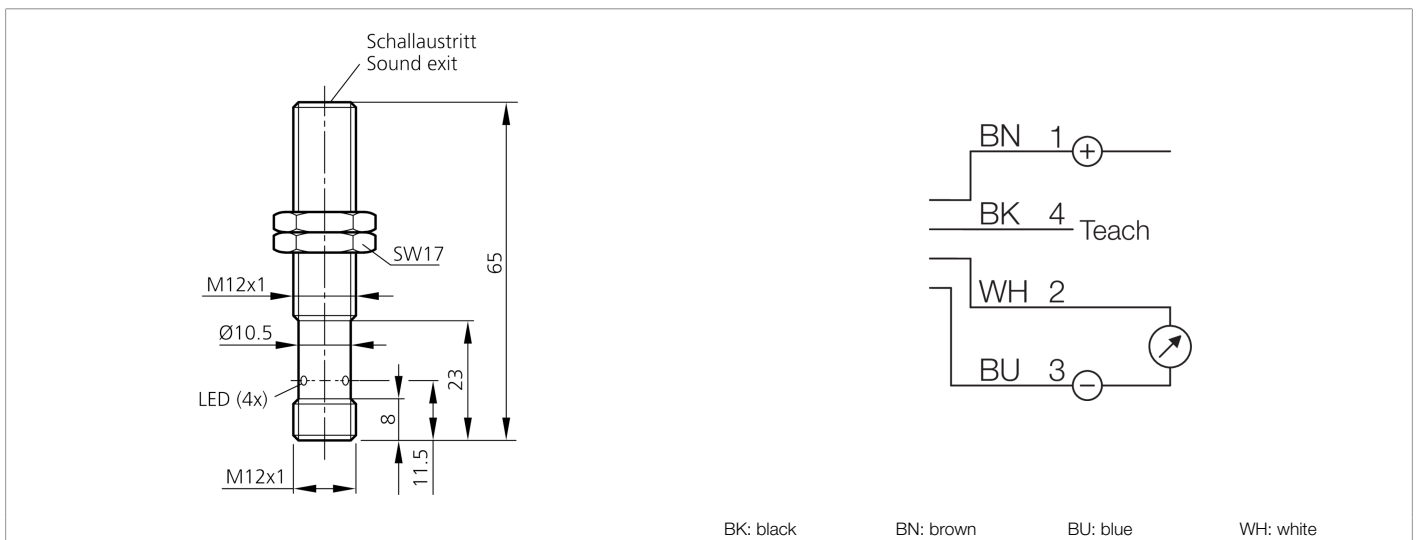




**212884**  
**US 12 M 400 IU-B4**  
**Ultrasonic sensor**

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- 3 different teach modes
- Working range adjustable
- Analog output
- Very narrow detection beam / small blind zone
- Resistant to dirt
- Small design
- Robust metal housing
- Protection class IP 67



Function										

Technical data (typ.)	+20°C, 24 V DC
Service voltage	18 ... 30 V DC
No-load current (max.)	40 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	M12 x 65 mm
Thread	M12 x 1
Housing length	65 mm
Transmission exit	axial
Assembly distance (sensor to sensor)	200 mm
Housing material	Brass (CuZn, nickel-plated)
Material	Epoxy resin, PUR (Transducer surface)
Weight	18 g
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
Parallel operation possible	Yes
Operation modes	STANDARD, Master / slave function (synchronization or multiplex operation)



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**Ultrasonic sensor**

Technical data (typ.)	+20°C, 24 V DC
Scope of delivery	Sensor, 2 x M12 nuts
Functions	Teach, Out 1, IO-Link, multiplex, synchronization (PIN 4), Analog 0...10V / 4...20mA / 0...20mA (Pin 2)
Switching output	Push-pull, 150 mA, NO/NC, switchable
Max. switch current	150 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)	400 mm
Range	40 ... 400 mm
Adjustment range	40 ... 400 mm (Teach in)
Resolution	1,0 mm (Adjusted measuring range/4095 (analog output))
Standardized measuring plate	200 x 200 mm
Switching hysteresis (max.)	2 ... 20 mm (Adjustable by IO-Link)
Reproducibility	< 1.5 mm
Linearity error	< 0,4 %
Sensitivity adjustment	Remote teach
Display	LED 1x Green - Status, 1x yellow - Switching output
Measuring frequency	250 Hz
Ultrasonic frequency	300 kHz
Switching frequency	10 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 %/Sn (compensated)
Protection type	IP 67
Connection	Connector, M12, 4-pin
Connection cable	VKHM ... /4
<b>More information / accessories</b>	<b><a href="https://www.di-soric.com/212884">https://www.di-soric.com/212884</a></b>