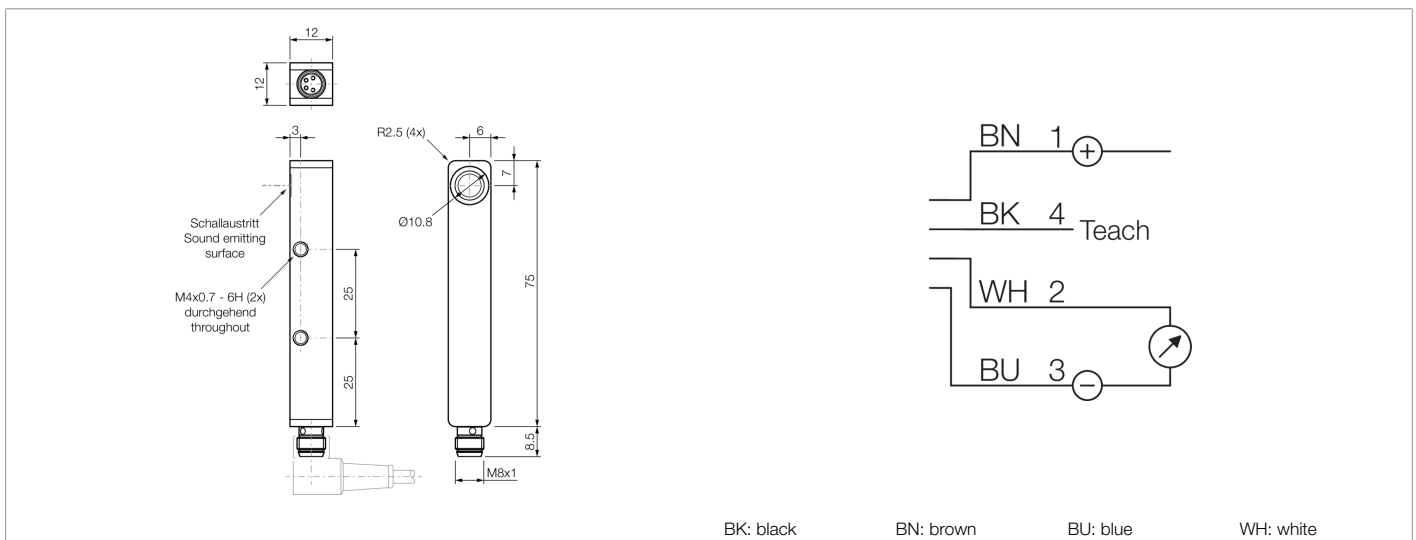




**210968**  
**US Q12 M 400 IU-T4**  
**Ultrasonic sensor**

- IO-Link
- Can be configured as an ultrasonic sensor, barrier or for analog distance measurement
- 3 different teach modes
- Working range adjustable
- Analog output 4 to 20 mA / 0 to 10 V, depending on load
- 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	12 x 12 x 75 mm
Housing length	75 mm
Housing height	12 mm
Housing width	12 mm
Transmission exit	radial
Assembly distance (sensor to sensor)	250 mm
Housing material	Aluminum (Black, Anodized)
Material	Epoxy resin, PUR (Transducer surface)
Weight	30 g
Protection class	III, operation on protective low voltage
Operating principle	Ultrasonic sensor, Ultrasonic barrier
Evaluation	digital, analog
Design	Cuboid design
Characteristics	IO-Link
Parallel operation possible	Yes



**210968**  
**US Q12 M 400 IU-T4**  
**Ultrasonic sensor**

Technical data (typ.)	+20°C, 24 V DC
Operation modes	STANDARD, Master / slave function (synchronization or multiplex operation)
Functions	Analog 0...10V / 4...20mA / 0... 20mA (Pin 2), Teach, Out 1, IO-Link, multiplex, synchronization (PIN 4)
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))
Analog output linearity	< 0,8 %
Interface	IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)
Load resistance	> 10 K $\Omega$ (0 ... 10 V) / < 400 $\Omega$ (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	100 x 100 mm
Switching hysteresis (max.)	2 ... 20 mm (Adjustable by IO-Link)
Reproducibility	< 0,5 mm
Linearity error	< 0,8 %
Sensitivity adjustment	Remote teach
Display	LED 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, M8, 4-pin
Connection cable	TK ... /4
<b>More information / accessories</b>	<b><a href="https://www.di-soric.com/210968">https://www.di-soric.com/210968</a></b>