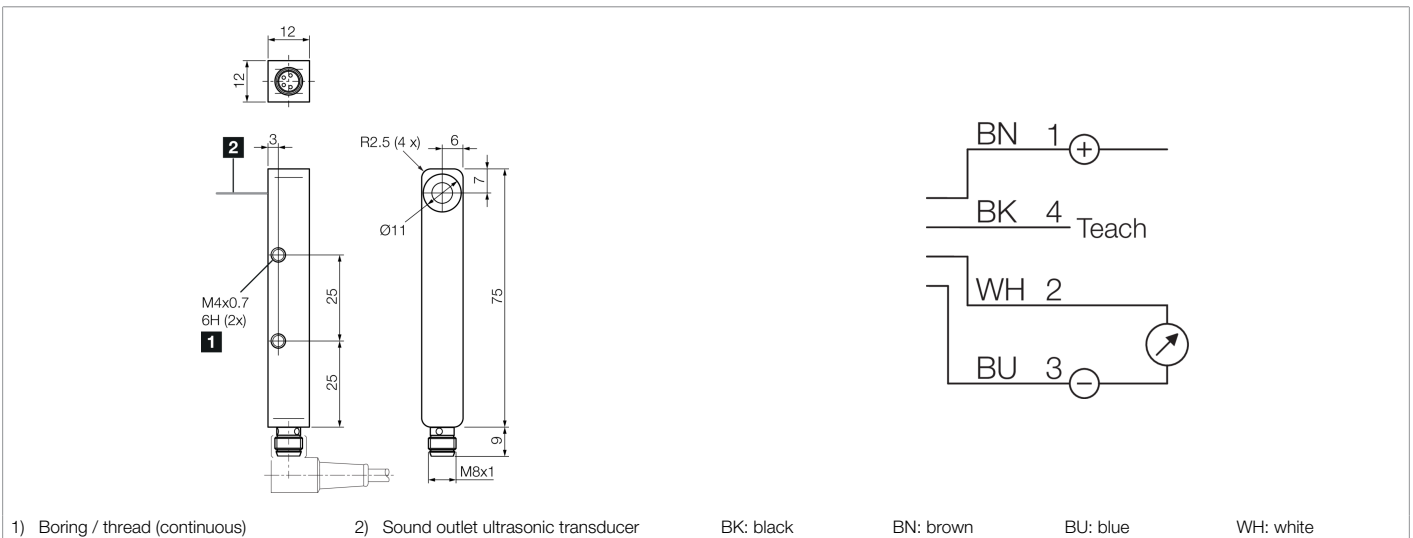




210963
US Q12 M 200 IU-T4
Ultrasonic sensor

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- 3 different teach modes
- Low installation depth
- Very narrow detection beam / small blind zone
- Switching functions: Closer/opener, window function teachable
- 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)	60 mm
Housing material	Aluminum (Black, Anodized)
Material	Epoxy resin, PUR (Transducer surface)
Protection class	III, operation on protective low voltage
Approvals	UL
Operating principle	Ultrasonic sensor, Ultrasonic sensor
Evaluation	digital, analog (With IO-Link)
Design	Cuboid design
Characteristics	IO-Link
Parallel operation possible	Yes



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Technical data (typ.)	+20°C, 24 V DC
Operation modes	STANDARD, Master / slave function (synchronization or multiplex operation)
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
Interface	IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)
Load resistance	> 10 K Ω (0 ... 10 V) / < 400 Ω (4 ... 20 mA / 0 ... 20 mA)
Nominal switching distance (Sn)	200 mm
Range	20 ... 200 mm (adjustable)
Adjustment range	20 ... 200 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	\pm 0.4 %
Sensitivity adjustment	Remote teach
Display	LED 1x yellow - Switching output
Measuring frequency	400 Hz
Ultrasonic frequency	400 kHz
Switching frequency	20 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
More information / accessories	https://www.di-soric.com/210963