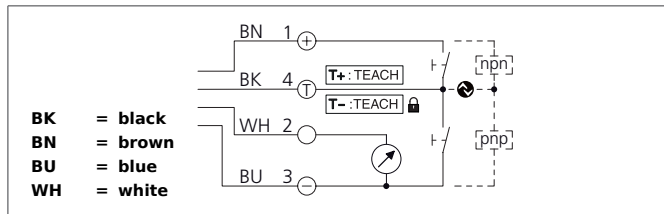


# US Q12 M 200 IU-T4

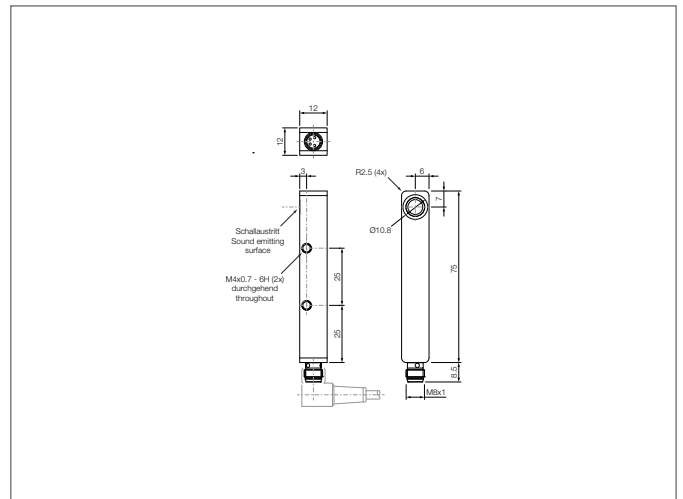
## Ultrasonic Sensor

- IO-Link
- Can be configured as ultrasonic diffuser, ultrasonic barrier or for the analog distance measurement
- 3 different teach modes
- Scanning range adjustable
- Analog output 4 ... 20 mA / 0 ... 10 V, depending on load
- Narrow detection beam / small blind zone
- Insensitive to dirt
- Small design
- Robust metal casing
- Protection class IP 67



### Safety instructions

The Instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments.  
 These instruments shall exclusively be used by qualified personnel.



TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Operating principle		Retroreflective sensor, Diffuser, Window mode, analog distance measurement, configurable via IO-Link
Evaluation		analog, digital (via IO-Link)
Operating modes		Default, Master/Slave function (synchronization or multiplex mode)
Size		12 x 12 x 75 mm (Dimensions)
Design		cuboid design
Sending axis		radial
Nominal switching distance (Sn)		200 mm
Standardized measuring plate		10 x 10 mm
Service voltage		18 ... 30 V DC
No-load current		< 40 mA, (24 V DC)
Operating distance		20 ... 200 mm adjustable
Resolution		0,01 ... 0,04 mm (analog), 1 mm (IO-Link)
Sensitivity adjustment		Remote teach
Mounting distance		> 60 mm (Sensor to sensor)
Switching output		Push pull, 150 mA
Max. power operating		150 mA
Switching hysteresis		2 mm, via IO-Link adjustable up to 20 mm
Analog output		0 ... 10 V, 4 ... 20 mA
Sound frequency		300 kHz
Linearity analog output		< 0,4 % / Sn max.
Interface		IO-Link, V1.1, COM2 (38,4kBd), Smart Sensor Profile

## US Q12 M 200 IU-T4 Ultrasonic Sensor



<b>TECHNICAL INFORMATION (typ.)</b>	<b>+20°C, 24V DC</b>
Inverse polarity protection	Yes
Display	LED yellow (Display output)
Voltage drop	< 2,0 V
Switching frequency	< 20 Hz
Short-circuit protection	yes
Reproducibility	< 0,5 mm
Readiness delay	< 300 ms
Ambient temperature, operation	-25 ... +70 °C
Temperature drift	0.2 %/K (uncompensated), < 1 %/Sn (compensated)
Load resistance	> 10 KΩ (0 ... 10 V) / < 400 Ω (4 ... 20 mA)
Insulation voltage endurance	500 V
Protection class	IP 67
Protection degree	III, operation on protective low voltage
Casing material	Aluminium black anodized
Material	epoxy resin, PUR (Transducer surface)
Connection	Connector, M8, 4-poled
Connecting cable	TK ... /4