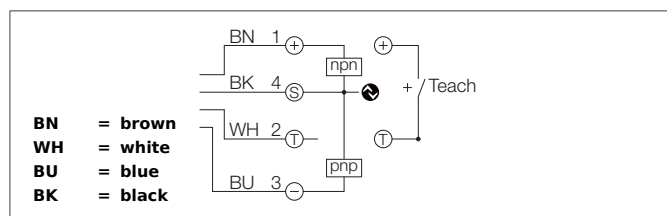


US Q12 M 400 R G3-T4

Ultrasonic Sensor

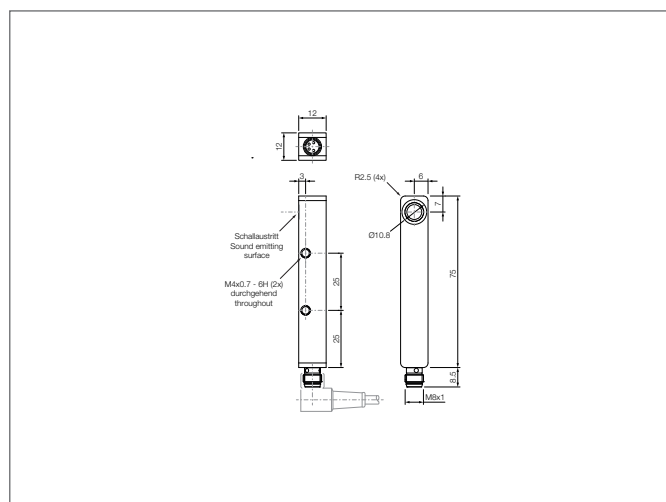


- IO-Link
- Scanning range adjustable
- Reflex-Mode teach procedure
- Narrow detection beam / small blind zone
- Switching functions: NO/NC, frame function teachable
- Insensitive to dirt
- Small design
- Robust metal casing
- Protection class IP 67



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, configurable via IO-Link
Evaluation	digital
Size	12 x 12 x 75 mm (Dimensions)
Design	cuboid design
Sending axis	radial
Nominal switching distance (Sn)	400 mm
Standardized measuring plate	100 x 100 mm
Service voltage	18 ... 30 V DC
No-load current	< 40 mA, (24 V DC)
Operating distance	40 ... 400 mm adjustable
Resolution	1 mm (IO-Link)
Sensitivity adjustment	Remote teach
Mounting distance	> 250 mm (Sensor to sensor)
Switching output	Push pull, 150 mA, NO/NC, switchable
Max. power operating	150 mA
Switching hysteresis	2 mm, via IO-Link adjustable up to 20 mm
Sound frequency	300 kHz
Interface	IO-Link, V1.1, COM2 (38,4kBd), Smart Sensor Profile
Inverse polarity protection	Yes
Display	LED yellow (Display output)
Voltage drop	< 2,0 V
Switching frequency	< 10 Hz
Short-circuit protection	yes

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Ultrasonic Sensor



TECHNICAL INFORMATION (typ.)	+20°C, 24V DC
Reproducibility	< 0,5 mm
Linearity error	< 0,8 % / Sn max.
Readiness delay	< 300 ms
Ambient temperature, operation	-10 ... +70 °C
Temperature drift	0.2 %/K (uncompensated), < 1 %/Sn (compensated)
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