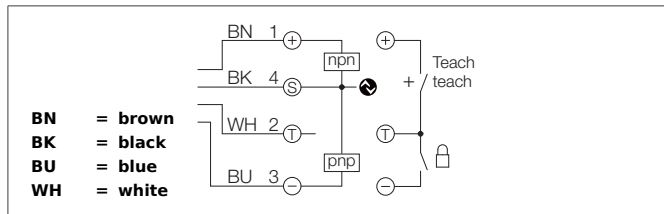


# US 12 M 150 FB G3-B4

## Ultrasonic Sensor

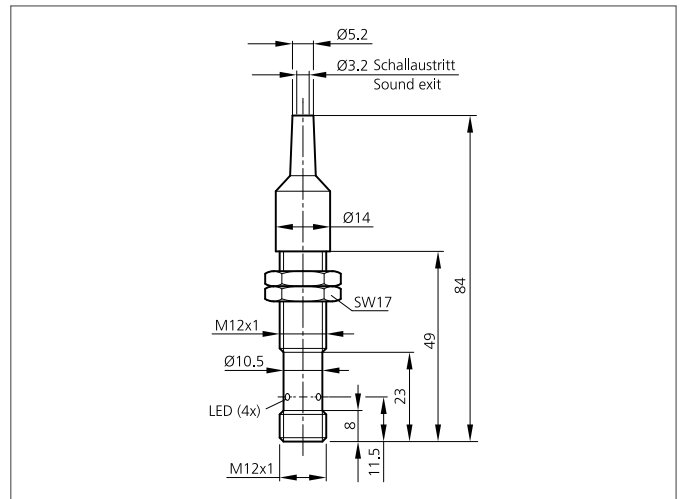


- IO-Link
- As a ultrasonic sensor or -barrier configurable
- 3 different teach modes
- Scanning range adjustable
- Narrow detection beam / no blind zone due to focus nozzle
- Switching functions: NO/NC, frame function teachable
- Insensitive to dirt
- Small design
- Robust metal casing
- Protection 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, Window mode, Ultrasonic sensor, configurable via IO-Link
Evaluation		digital
Size		M12 x 1 (thread)
Design		screw
Sending axis		axial
Characteristics		Focus nozzle
Nominal switching distance (Sn)		150 mm
Standardized measuring plate		20 x 20 mm
Service voltage		18 ... 30 V DC
No-load current		< 40 mA, (24 V DC)
Adjustment range		0 ... 150 mm, adjustable
Resolution		1,0 mm
Sensitivity adjustment		Remote teach
Mounting distance		> 60 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		400 kHz
Interface		IO-Link, V1.1, COM2 (38,4kBd), Smart Sensor Profile
Inverse polarity protection		Yes
Display		2 x LED yellow (Display output), 2 x LED green (status)
Voltage drop		< 2,0 V

## US 12 M 150 FB G3-B4 Ultrasonic Sensor



<b>TECHNICAL INFORMATION (typ.)</b>	<b>+20°C, 24V DC</b>
Switching frequency	20 Hz
Short-circuit protection	yes
Reproducibility	< 0,5 mm
Linearity error	< 0,4 % / Sn max.
Readiness delay	< 300 ms
Ambient temperature, operation	-25 ... +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	brass nickel plated
Material	epoxy resin, PUR (Transducer surface)
Connection	Connector, M12, 4-poled