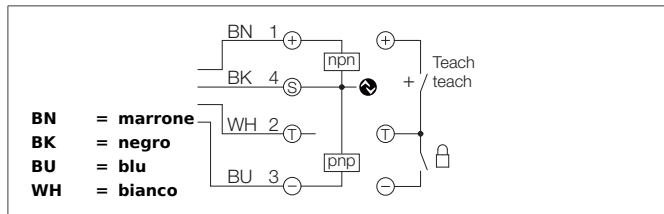


US 12 M 150 FB G3-B4

Ultrasonic Sensor

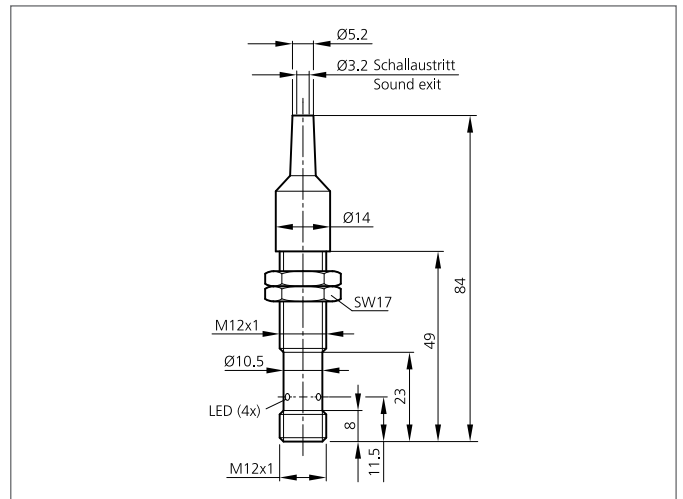


- IO-Link
- As a ultrasonic sensor or -barrier configurable
- 3 different teach modes
- Scanning range adjustable
- Narrow detection beam / no blind zone due to focus nozzle
- Switching functions: NO/NC, frame function teachable
- Insensitive to dirt
- Small design
- Robust metal casing
- Protection 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.)	
Operating principle	+20°C, 24V DC 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



TECHNICAL INFORMATION (typ.)	+20°C, 24V DC
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