UT 12-370-A

Ultrasonic sensor with analogue output



CE

PRODUCT HIGHLIGHTS

- Robust M12 metal housing for harsh operating conditions
- Analogue output: 4 … 20 mA
- Simple sensor adjustment via control input

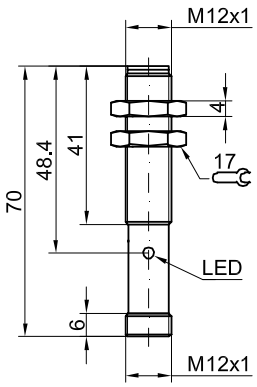
Sensor data		Functions	
Operating scanning distance	30 … 400 mm	Indicator LED, yellow	Switching output indicator
Adjustment range	50 … 400 mm	Indicator LED, red	Fault indicator
Ultrasonic frequency	~ 310 kHz	Set characteristic analogue curve	Via control input
Resolution	0.40 mm[1]	Adjustment possibilities	Rising / falling slope via control input
Temperature drift	± 1.5 %[2]	Default settings	Evaluation limit 1 = 50 mm Evaluation limit 2 = 400 mm
Repeatability	± 0.5 %[2]		
Electrical data		**Mechanical data**	
Operating voltage, $+U_B$	10 … 30 V DC[3]	Dimensions	M12 x 70 mm
No-load current, I_0	≤ 30 mA	Enclosure rating	IP 67[4]
Current output	R_a < 300 Ω	Material, housing	Nickel-plated brass
Protective circuits	Short-circuit protection (Q) / overload protection	Material, ultrasonic converter	Polyurethane foam, epoxy resin with glass content, PBT (lid)
Analogue output	4 … 20 mA	Type of connection	(See selection table)
Response time	≤ 50 ms	Ambient temperature: operation	-25 … +70 °C
Control input, WH	- U_B = lower evaluation limit + U_B = upper evaluation limit	Ambient temperature: storage	-40 … +85 °C
		Weight	25 g

[1] With max. detection range [2] From end-value [3] Max. 10 % ripple, within U_B [4] With connected IP 67 plug

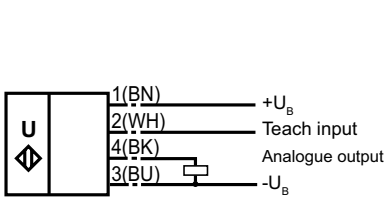
Operating scanning distance	Analogue output	Type of connection	Part number	Article number
30 … 400 mm	4 … 20 mA	Plug, M12x1, 4-pin	UT 12-370-A-IL4	690-10101

Version: 01/2021. Subject to changes; diagrams similar

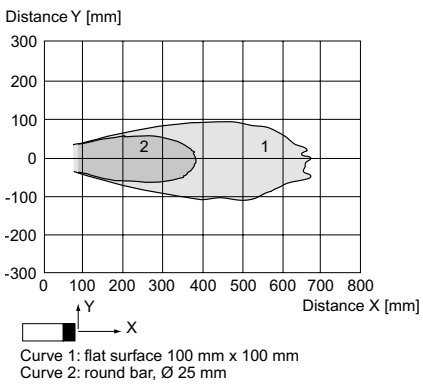
Plug connection



Connection, 4-pin



Sound cone



Curve 1: flat surface 100 mm x 100 mm
Curve 2: round bar, Ø 25 mm

Accessories

Connection cables	From Page A-38
Brackets	From Page A-4