

UT 18-270-A

Ultrasonic sensor with analogue output



PRODUCT HIGHLIGHTS

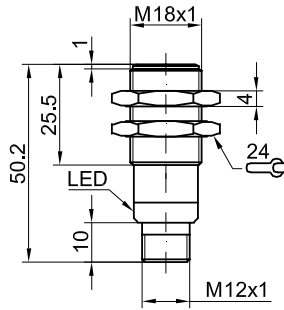
- Robust M18 metal housing for harsh operating conditions
- Detection regardless of object colour and surface
- Analogue output: 4 ... 20 mA
- Rising/falling output characteristic adjustable

Sensor data		Functions	
Operating scanning distance	35 ... 300 mm	Indicator LED, green	Operating voltage indicator
Adjustment range	50 ... 300 mm	Indicator LED, yellow	Switching output indicator
Ultrasonic frequency	~ 390 kHz	Indicator LED, red	Fault indicator
Resolution	0,40 mm ¹	Set characteristic analogue curve	Via control input
Temperature drift	± 1.5 % ²	Adjustment possibilities	Rising / falling slope via control input
Repeatability	± 0.5 % ²	Default settings	Evaluation limit 1 = 50 mm
			Evaluation limit 2 = 300 mm
Electrical data		Mechanical data	
Operating voltage, +U _b	10 ... 30V DC ³	Dimensions	M18 x 50.2 mm
No-load current, I ₀	≤ 20 mA	Enclosure rating	IP 65 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	≤ 30 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

¹With max. detection range ²From end-value ³Max. 10 % ripple, within U_b ⁴With connected IP 65 plug

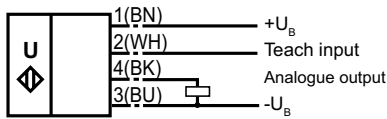
Operating scanning distance	Analogue output	Type of connection	Part number	Article number
30 ... 300 mm	4 ... 20 mA	Plug, M12x1, 4-pin	UT 18-270-A-IL4	690-10103

Plug connection



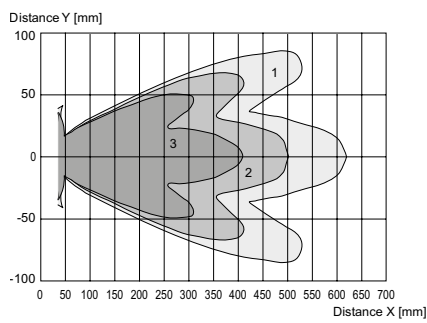
153-00582

Connection, 4-pin



154-00469

Sound cone



Curve 1: flat surface 100 mm x 100 mm
 Curve 2: flat surface 10 mm x 10 mm
 Curve 3: round bar, Ø 25 mm

155-00661

Accessories

Connection cables

From Page A-38

Brackets

From Page A-4