

UT 18-270-P

Ultrasonic sensor with switching output



PRODUCT HIGHLIGHTS

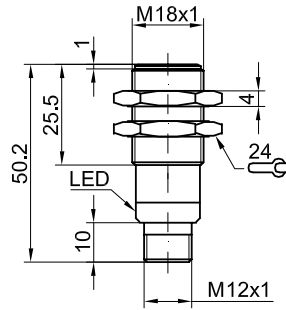
- Robust M18 metal housing for harsh operating conditions
- Detection regardless of object colour and surface
- Adjustable window mode
- Selectable N.O. / N.C.

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
Hysteresis	1 % ¹	Scanning distance adjustment	Via control input
Temperature drift	± 1.5 % ²	Teach-in modes	Mode 1: set switching point (N.O. / N.C.)
Repeatability	≤ 1 %	Default settings	Mode 2: set window operation (N.O. / N.C.)
			Switching point 1 = 50 mm
			Switching point 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
Output current, I _e	200 mA	Material, housing	Nickel-plated brass
Voltage drop, U _D	≤ 3V	Material, ultrasonic converter	Polyurethane foam, epoxy resin with glass content, PBT (lid)
Protective circuits	Short-circuit protection (Q) / overload protection	Type of connection	(See Selection Table)
Switching output, Q	PNP	Ambient temperature: operation	-25 ... +70 °C
Output function	N.O. / N.C.	Ambient temperature: storage	-40 ... +85 °C
Switching frequency, f (ti/tp 1:1)	≤ 13 Hz	Weight	25 g
Response time	≤ 30 ms		
Control input, WH	- U _b = switching point 1 + U _b = switching point 2		

¹ Relating to set switching distance ² From end-value ³ Max. 10 % ripple, within U_b ⁴ With connected IP 65 plug

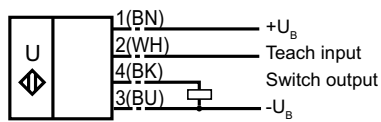
Operating scanning distance	Switching output	Type of connection	Part number	Article number
30 ... 300 mm	PNP	Plug, M12x1, 4-pin	UT 18-270-PSL4	690-10102

Plug connection



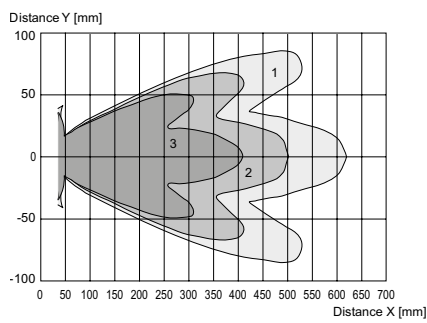
153-00582

Connection, 4-pin



154-00470

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

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Accessories

Connection cables

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Brackets

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