

UT 18-750-P

Ultrasonic sensor with switching output



PRODUCT HIGHLIGHTS

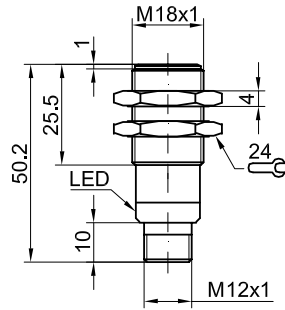
- Long operating scanning distance of 800 mm
- Robust M18 metal housing for harsh operating conditions
- Simple sensor adjustment via control input
- Window mode adjustable
- N.O. / N.C. selectable

Sensor data		Functions	
Operating scanning distance	50 ... 800 mm	Indicator LED, green	Operating voltage indicator
Adjustment range	70 ... 800 mm	Indicator LED, yellow	Switching output indicator
Ultrasonic frequency	~ 205 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 = 70 mm
			Switching point 2 = 800 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)	≤ 4 Hz	Weight	25 g
Response time	≤ 100 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

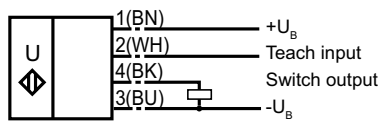
Operating scanning distance	Switching output	Type of connection	Part number	Article number
50 ... 800 mm	PNP	Plug, M12x1, 4-pin	UT 18-750-PSL4	690-10104

Plug connection



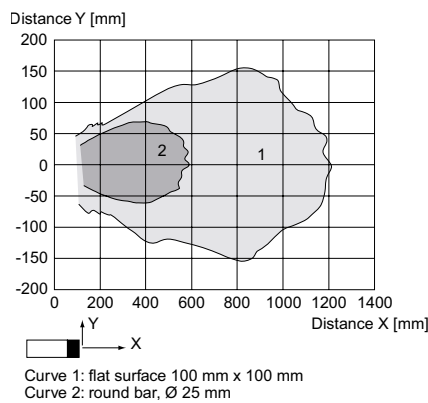
153-00582

Connection, 4-pin



154-00470

Sound cone



155-00662

Accessories

Connection cables

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Brackets

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