Ultrasonic Level/Distance Sensors

FEATURES

- Ultrasonic sensors

- insensitivity to countless materials, surface types, and colors

- Wood, metal, orplastic; colored, reflective or transparent

- Narrow Beam and Short Dead Band

- Temperature Compensated

- Intrinsically Safe CE & IP67 compliant in properly designed integrated system

- Tamperproof & Rugged

- IP67 Enclosure Rating

- Accurate under demanding environmental conditions

RS PRO Ultrasonic Level/Distance Sensor

RS Stock No.: 2565752

RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Ultrasonic Level/Distance Sensors

Product Description

Ultrasonic sensors precisely detect objects made from various materials regardless of their shape, colour, or surface contour. The operate using high-frequency sound waves that are inaudible to the human ear.

- Liquid and Solid Level Measurement
- Position Detection
- Factory automation
- Tanks, Totes, Processing

General Specifications

Series	PVDF
Detection Range	300mm – 8000mm
Transducer Frequency	50KHz
Sensor Configuration	Diffuse Reflection
Output Type	UART TTL
Response Time	125 ms
Beam Angle	10°
Deviation of the characteristic curve	$\pm$1% of full-scale value
Repeat accuracy	±0.1% of full-scale value
Terminal Type	
Communication Interface	
Indicator	
Wire Technique	4-wire
Electrical Connection	4-wire
Cable Length	120mm
Minimum Operating Temperature	-25 ℃
Maximum Operating Temperature	75 ℃
Shock Resistance	
Vibration Resistance	

Electrical Specifications

Operating Voltage Range	5 to 12V DC
Current Consumption	≤15mA（No-load）
Voltage Drop	
Minimum Load	2K Ohm
Switching Frequency	
Switching Current	
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Overload Protection	Yes

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Mechanical Specifications

Body Style	Cylindrical
Thread Size	M30
Housing Material	PVDF/ABS
Front Material	PVDF
Dimensions	¢62mm x 110mm
Width / Diameter	¢62mm
Length	110mm
Depth	
Weight	400g

Protection Category

IP Rating	IP67

Approvals

Compliance/Certifications	CE / RoHS EN 60947-5-2:2020
Declarations	MFR Declaration of Conformity
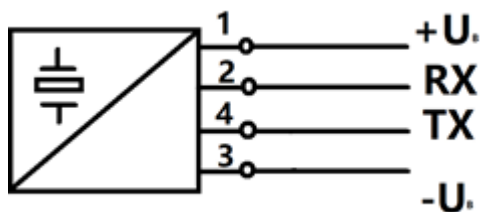
1 RED: +U

2 WHITE :   UART_RX

3 YELLOW : UART_TX

4 BLACK :   -U