

## FEATURES

- Ultrasonic sensors
- insensitivity to countless materials, surface types, and colors
- Wood, metal, or plastic; 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.: 2565751



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. They 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

<b>Series</b>	PVDF
<b>Detection Range</b>	300mm – 8000mm
<b>Transducer Frequency</b>	50KHz
<b>Sensor Configuration</b>	Diffuse Reflection
<b>Output Type</b>	RS485
<b>Response Time</b>	125 ms
<b>Beam Angle</b>	12°
<b>Deviation of the characteristic curve</b>	± 1% of full-scale value
<b>Repeat accuracy</b>	±0.1% of full-scale value
<b>Terminal Type</b>	
<b>Communication Interface</b>	
<b>Indicator</b>	
<b>Wire Technique</b>	4-wire
<b>Electrical Connection</b>	Four-core cable
<b>Cable Length</b>	2m
<b>Minimum Operating Temperature</b>	-25 °C
<b>Maximum Operating Temperature</b>	75 °C
<b>Shock Resistance</b>	
<b>Vibration Resistance</b>	

### Electrical Specifications

<b>Operating Voltage Range</b>	10 to 30V DC
<b>Current Consumption</b>	≤15mA (No-load)
<b>Voltage Drop</b>	
<b>Minimum Load</b>	2k Ohm
<b>Switching Frequency</b>	
<b>Switching Current</b>	
<b>Reverse Polarity Protection</b>	Yes
<b>Short Circuit Protection</b>	Yes
<b>Overload Protection</b>	Yes

# Ultrasonic Level/Distance Sensors

## Mechanical Specifications

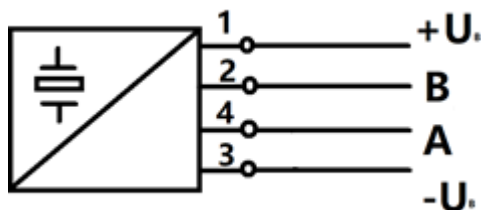
Body Style	Cylindrical
Thread Size	M30
Housing Material	PVDF
Front Material	PVDF
Dimensions	∅62mm x 110mm
Width / Diameter	∅62mm
Length	110mm
Depth	
Weight	400g

## Protection Category

IP Rating	IP67
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## Approvals

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



- BROWN : +U
- WHITE : 485A
- BLACK : 485B
- BLUE : -U

