

Ultrasonic Level/Distance Sensors

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.: 2565742



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

Series	NU
Detection Range	200mm – 2500mm
Transducer Frequency	100KHz
Sensor Configuration	Diffuse Reflection
Output Type	Analog Output 0—5V(Corresponding to 200--2500mm)
Response Time	125 ms
Beam Angle	10°
Deviation of the characteristic curve	± 1% of full-scale value
Repeat accuracy	±0.1% of full-scale value
Terminal Type	
Communication Interface	3-wire
Indicator	
Wire Technique	3-wire
Electrical Connection	3-wire
Cable Length	120mm
Minimum Operating Temperature	-25 °C
Maximum Operating Temperature	80 °C
Shock Resistance	
Vibration Resistance	

Electrical Specifications

Operating Voltage Range	6 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

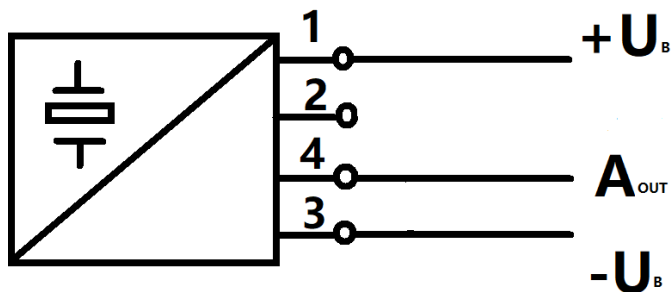
Body Style	Cylindrical
Thread Size	M30
Housing Material	PVDF/PVC
Front Material	PVDF
Dimensions	∅46mm x 42mm
Width / Diameter	∅46mm
Length	42mm
Depth	
Weight	70g

Protection Category

IP Rating	IP67
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Approvals

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



- RED: +U
- WHITE : Analog Output 0—5V
- BLACK : -U

