

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.: 2565739



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	PW40
Detection Range	0.4m – 10m
Transducer Frequency	40KHz
Sensor Configuration	Diffuse Reflection
Output Type	UART TTL
Response Time	125 ms
Beam Angle	12°
Deviation of the characteristic curve	± 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 °C
Maximum Operating Temperature	75 °C
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

Ultrasonic Level/Distance Sensors

Mechanical Specifications

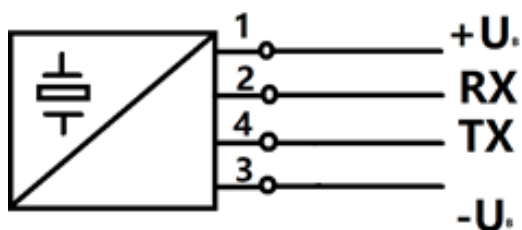
Body Style	Cylindrical
Thread Size	M30/M66
Housing Material	ABS
Front Material	Epoxy
Dimensions	∅66mm x 150mm
Width / Diameter	∅66mm
Length	150mm
Depth	
Weight	600g

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

