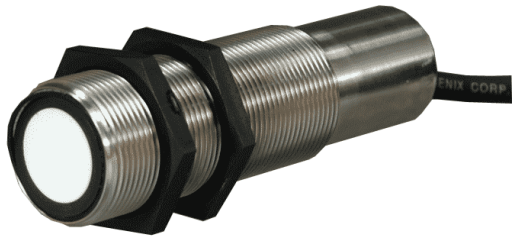


US2 ULTRASONIC SENSOR



- Non-contact sensing, 4 inches to 14 feet
- Rugged stainless housing
- Analog output proportional to distance measured
- User-adjustable settings for application flexibility
- Push button select of 0-10Vdc or 4-20mA
- Push button adjustment of measurement range
- LED indication of target status (*In range, no target, too close*)

DESCRIPTION

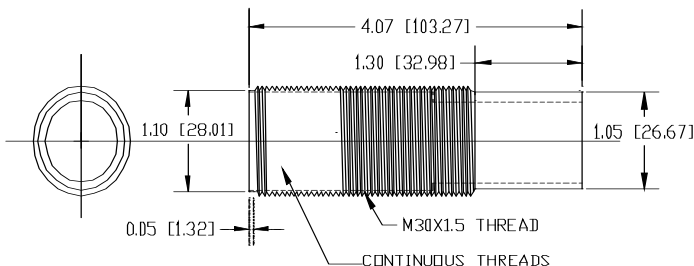
The US2 is an ultrasonic position transducer that is ideal for non-contact position sensing. The US2 measures the distance or presence of a target object by sending a sound wave, above the range of hearing, at the object and then measuring the time for the sound echo to return. Knowing the speed of sound, the sensor can determine the distance of the object from the transducer element and generate a proportional analog output signal. This signal can be used as a command signal generator for Proportion-Air electro-pneumatic control valves in web tensioning applications. The unit is self contained and can function as a stand alone device. This unit offers a variety of field adjustments: detection range; reversible electronic output; position detection switches that can be used for roll size alarms; and gain adjustment for sensitivity.

SPECIFICATIONS

SUPPLY VOLTAGE	15-24 VDC
SUPPLY CURRENT	65 mA max. plus output loads
OUTPUT SIGNAL	0-10 VDC 4-20 mA 20-4 mA 10-0VDC
RANGE	4-168" (10-427 cm)
CABLE	6 ft. attached cable
MEASUREMENT RATE	40 measurements/second (default)
RESPONSE TIME	50 ms (fast), 2 inches/second (slow)
RESOLUTION	0.003384 inches (0.086 mm)
REPEATABILITY	0.1% target range @ constant temperature
OPERATING TEMPERATURE	-40°F (-40°C) to 158°F (70°C)
WEIGHT	11 oz. (312 g)
ENCLOSURE	303 Stainless Steel / IP68
TRANSDUCER TYPE	Rugged Piezoelectric

DIMENSIONS

Dimensions are in inches (mm)
Mounting Hole Diameter: 1.2 in. (30.5 mm)



ORDERING INFORMATION

Order with Model Number: **US2**

PROPORTION-AIR, INC.
8250 N. 600 West
McCordsville, IN 46055

phone: 317-335-2602
email: info@proportionair.com

PROPORTIONAIR.COM

Proportion-Air products are warranted to the original purchaser only against defects in material or workmanship for one (1) year from the date of manufacture. The extent of Proportion-Air's liability under this warranty is limited to repair or replacement of the defective unit at Proportion-Air's option. Proportion-Air shall have no liability under this warranty where improper installation or filtration occurred.

All specifications are subject to change without notice. **THIS WARRANTY IS GIVEN IN LIEU OF, AND BUYER HEREBY EXPRESSLY WAIVES, WARRANTIES OR LIABILITIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY OBLIGATION OF PROPORTION-AIR WITH REGARD TO CONSEQUENTIAL DAMAGES, WARRANTIES OF MERCHANTABILITY, DESCRIPTION, AND FITNESS FOR A PARTICULAR PURPOSE.**

WARNING: Installation and use of this product should be under the supervision and control of properly qualified personnel in order to avoid the risk of injury or death.