

SonaSwitch®

Series Mini-A & Mini-S

ULTRASONIC SENSORS

Technical Specifications



RANGE

6" to 10' adjustable; $\pm 0.1\%$ accuracy over entire range at stable temperature; Switchpoint and analog outputs are temperature compensated. Custom ranges of 1" to 40' available.

BEAM ANGLE

15 degree nominal; Single beam. Cone-shaped pattern diverges approximately 2.6' at maximum range (10').

REPETITION RATE

10Hz astable; May be externally triggered.

OUTPUTS

Model Mini S

Two (2) adjustable NPN open collector outputs; transistors are continuously energized during detection period.

Model Mini A

One (1) 0-5 VDC 10-bit analog output with fully independent zero and span adjustments over entire operating range. 0-10 VDC available on a custom basis.

OUTPUT RESPONSE TIME

Model Mini S

Three (3) consecutive target hits before turn on; three (3) consecutive misses before turn off. Custom hit/miss values available.

Model Mini A

0-5 VDC or 0-10 VDC analog output is filtered to the approximate formula;
 $V_{out} = 0.9 (V_{new \text{ value}}) + 0.1 (V_{past \text{ avg. value}})$.
Custom response filters available

ENVIRONMENT

Indoor or protected outdoor environments; Highly insensitive to temperature, humidity and pressure changes. Withstands high audio and EMI/RFI levels; Must be protected from excessive moisture in outdoor applications.

WEIGHT

Approximately 0.6 ounces

SIZE

1.700" overall diameter; 0.950" depth; 1.525 transducer face diameter.

OPERATING TEMPERATURE

Operating -40 to 85°C (-40 to 185°F)

WEIGHT REQUIREMENTS

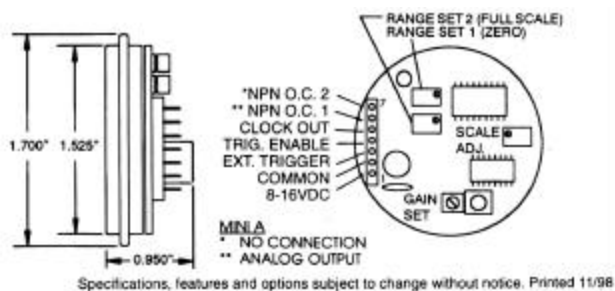
8-16 VDC; 30 ma maximum current.

MOUNTING

Mount in 1.575" diameter hole; use RTV silicone or edge clips to secure in place

TRANSDUCER

Electrostatic transducer available in standard flat black cold rolled steel housing or metal finish stainless steel housing. Polymer coating available for extra durability in harsh environments



Specifications, features and options subject to change without notice.



Visit us on the Internet :
www.edpcompnay.com

36704 Commerce Rd. • Livonia, MI 48150
Outside U.S.A. Phone 734-591-9176 • FAX 734-591-7852

TOLL FREE 1-800-553-9070