

dBi PROFIBUS INTELLIGENT TRANSDUCERS

Technical Specifications:

The Pulsar dBi Profibus PA Transducer Series are a range of self-contained, intelligent non-contacting ultrasonic level measurement transducers which make use of Profibus PA communication protocols.

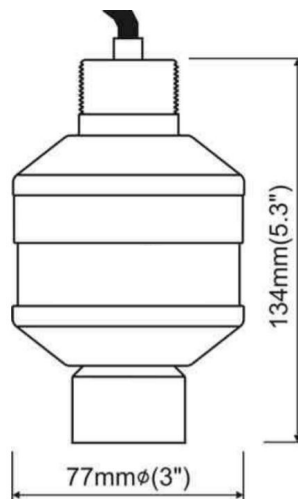


PHYSICAL: TRANSDUCER SPECIFIC

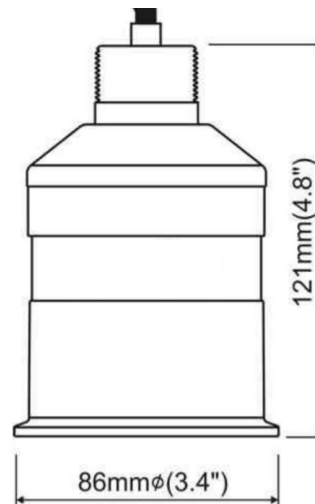
| | dBi3 | dBi6 | dBi10 | dBi15 |
|--------------------------------|---|---|---|--|
| Sensor Body Dimensions: | 77 mm D x 134 mm H (3 in x 5.3 in) Rear thread 1" BSP/NPT | 86 mm D x 121 mm H (3.4 in x 4.8 in) Rear thread 1" BSP/NPT | 86 mm D x 121 mm H (3.4 in x 4.8 in) Rear thread 1" BSP/NPT | 86 mm D x 135 mm H (3.4 in x 5.3 in) Rear thread 1" BSP/NPT |
| Weight: | 1 kg (2.2 lb) | 1.2 kg (2.7 lb) | 1.3 kg (2.9 lb) | 1.4 kg (3.1 lb) |
| Measurement Range: | 125 mm to 3 m (4.9 in to 9.8 ft) | 300 mm to 6 m (11.8 in to 19.7 ft) | 300 mm to 10 m (11.8 in to 32.8 ft) | 500 mm to 15 m (19.7 in to 49.2 ft) |
| Frequency: | 125kHz | 75kHz | 50kHz | 41kHz |
| Beam Angle: | <10° | <10° | <10° | <8° |
| Accuracy | 2 mm (0.08 in) | 4 mm (0.2 in) | 3 mm (0.1 in) up to 6 m range (19.7 ft) 6 mm (0.2 in) over 6 m range (19.7 ft) | 5 mm (0.2 in) up to 10 m (32.8 ft) 10 mm (0.4 in) over 10 m range (32.8 ft) |
| Resolution: | 1 mm (0.04 in) | 2 mm (0.08 in) | 3 mm (0.1 in) | 5 mm (0.2 in) |

PHYSICAL: ALL TRANSDUCERS

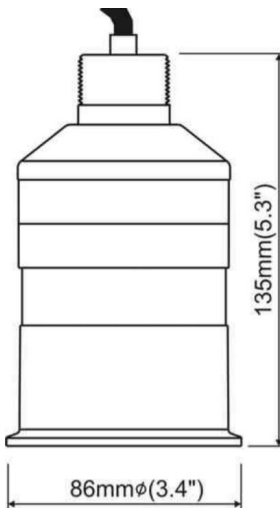
| | |
|---------------------------------------|---|
| Housing Material: | Valox 357 PBT (Polybutylene terephthalate) |
| Temperature Compensation: | Internal temperature sensor, ± 0.5 °C/°F |
| Transducer Cable Requirements: | Twin screened. Integral cable length 5 m, 10 m, 20 m or 30 m (16.4 ft, 32.8 ft, 65.6 ft, 98.4 ft) |
| Operating Temperature Range: | 40 °C to +80 °C (-40 °F to +176 °F) process temperature |
| Ingress Protection: | IP68 to BS EN 60068-2-17:1995 and BS EN 60529 (Nema 6P available) |
| Approvals: | See EC Declaration of Conformity in the manual |
| Hazardous Area Approval: | ATEX; Ex ia Zone 0 and FISCO |
| Power: | Bus-powered, per IEC 61158-2; 20mA (general purpose or I.S. version) 20mA 18-24 V DC |
| Update Time: | 1 to 2 seconds at 20mA current loop |
| Programming: | PA modem; Simatic PDM, EDDL, FDT/DTM on request. PC interface 2-wire loop powered from PC or laptop. No external power is required. |
| Outputs: | Profile 3.0.2, Class A with I&M functionality |



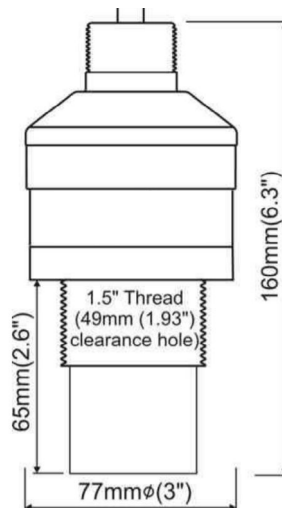
dB13 Rear Thread



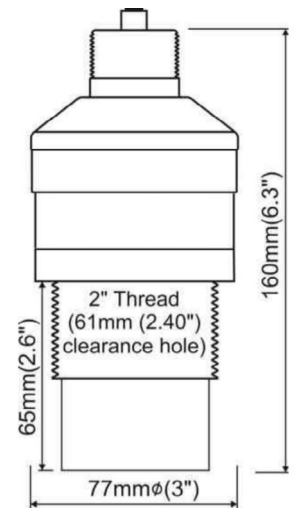
dB16 & dB10 Rear Thread



dB15 Rear Thread



dB13&6 Front Thread



dB10 Front Thread



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Rev 5.0