

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.

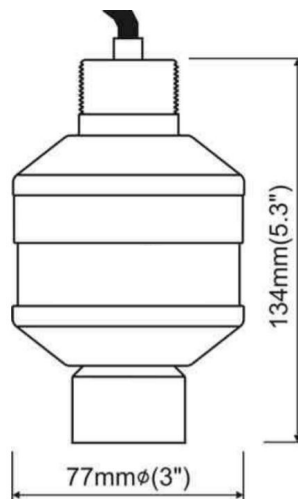


PHYSICAL: TRANSDUCER SPECIFIC

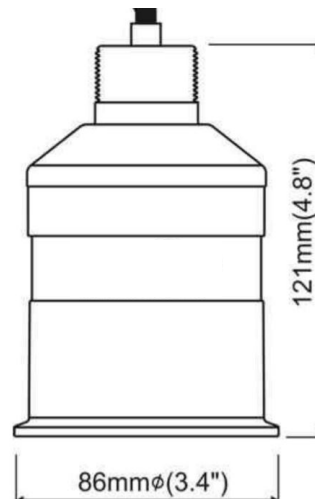
	dBi3	dBi6	dBi10	dBi15
Sensor Body Dimensions:	77 mm D x 134 mm H (3 in x 5.3 in) Rear thread 1" BSP/NPT	86 mm D x 121 mm H (3.4 in x 4.8 in) Rear thread 1" BSP/NPT	86 mm D x 121 mm H (3.4 in x 4.8 in) Rear thread 1" BSP/NPT	86 mm D x 135 mm H (3.4 in x 5.3 in) Rear thread 1" BSP/NPT
Weight:	1 kg (2.2 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°
Effective Beam Angle (using DATEM)	3°	3°	3°	3°
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

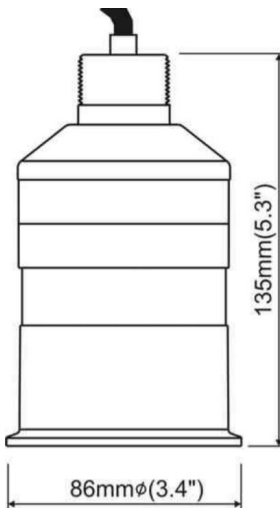
Housing Material:	Valox 357 PBT (Polybutylene terephthalate)
Temperature Compensation:	Automatic, internal temperature sensor, ± 0.5 °C/°F
Transducer Cable Requirements:	Twin screened. Integral cable length 5 m, 10 m, 20 m or 30 m (16.4 ft, 32.8 ft, 65.6 ft, 98.4 ft)
Operating Temperature Range:	40 °C 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



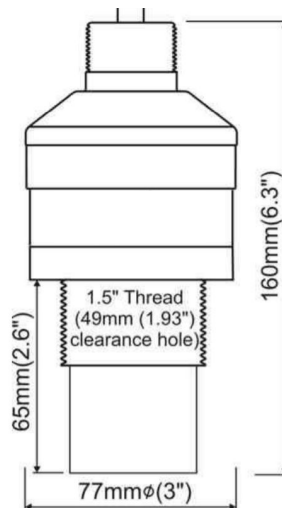
dB13 Rear Thread



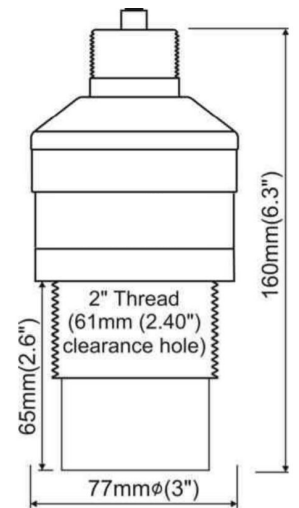
dB16 & dB10 Rear Thread



dB15 Rear Thread



dB13&6 Front Thread



dB10 Front Thread



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Delivering the Measure of Possibility

Rev 6.0