

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.

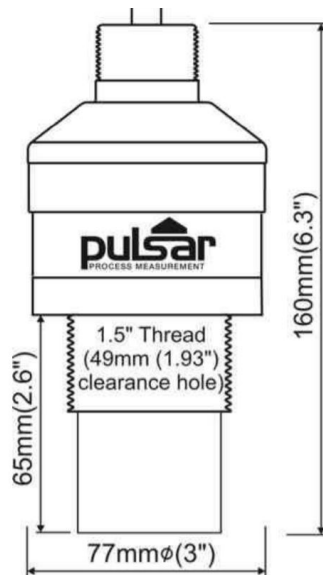


PHYSICAL: TRANSDUCER SPECIFIC

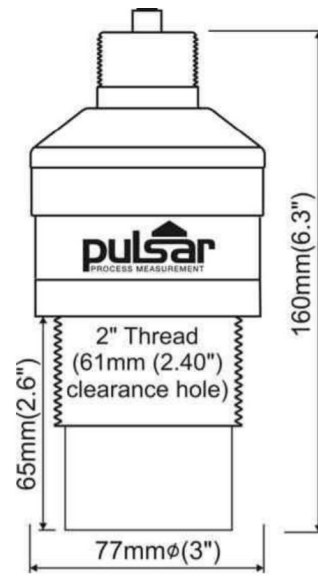
	dBi3	dBi6	dBi10	dBi15
Sensor Body Dimensions:	77 mm D x 134 mm H (3 in x 5 in) Rear thread 1" BSP/NPT	86 mm D x 121 mm H (3.39 in x 4.76 in) Rear thread 1" BSP/NPT	86 mm D x 121 mm H (3.39 in x 4.76 in) Rear thread 1" BSP/NPT	86 mm D x 135 mm H (3.39 in x 5.31 in) Rear thread 1" BSP/NPT
Weight:	1 kg (2.2 lb)	1.2 kg (2.7 lb)	1.3 kg (2.9 lb)	1.4 kg (3.1 lb)
Measurement Range:	0.125 mm to 3 m (0.41 ft to 10 ft)	0.3 mm to 6 m (0.98 ft to 20 ft)	0.3 mm to 10 m (0.98 ft to 33 ft)	0.5 mm to 15 m (1.64 ft to 50 ft)
Frequency:	125kHz	75kHz	50kHz	41kHz
Beam Angle:	<10°	<10°	<10°	<8°
Accuracy	2 mm (0.08 in)	4 mm (0.16 in)	3 mm (0.12 in) up to 6 m range (20 ft) 0.24 in (6 mm) over 6 m range (20 ft)	5 mm (0.2 in) up to 10 m (33 ft) 10 mm (0.39 in) over 10 m range (33 ft)
Resolution:	1 mm (0.04 in)	2 mm (0.08 in)	3 mm (0.12 in)	5 mm (0.2 in)

PHYSICAL: ALL TRANSDUCERS

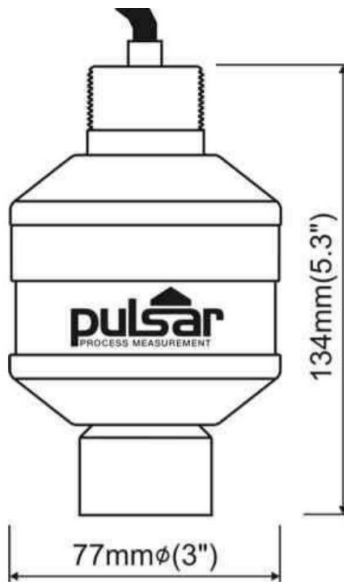
Housing Material:	Valox 357 PBT (Polybutylene terephthalate)
Temperature Compensation:	Internal temperature sensor, ± 0.5 °C/°F
Transducer Cable Requirements:	Twin screened. Integral cable length 5 m, 10 m, 20 m or 30 m (16 ft, 32 ft, 65 ft, or 98 ft)
Operating Temperature Range:	40 °C to +80 °C (-40 °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:	1-2 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 required.
Outputs:	Profile 3.0.2, Class A with I&M functionality



dBi3&6 Front Thread



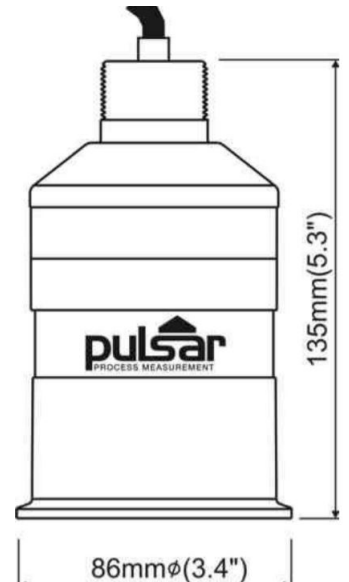
dBi10 Front Thread



dBi3 Rear Thread



dBi 6 & dBi10 Rear Thread



dBi15 Rear Thread



INFO@PULSARMEASUREMENT.COM

Pulsar Measurement is a trading name of Pulsar Process Measurement, Ltd.

*Copyright © 2020 Pulsar Measurement
Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX
Registered No.: 3345604 England & Wales*

Delivering the Measure of Possibility

United States
11451 Belcher Road South
Largo, FL 33773
888-473-9546

Canada
16456 Sixsmith Drive
Long Sault, Ont. K0C 1P0
855-300-9151

United Kingdom
Cardinal Building, Enigma
Commercial Centre
Sandy's Road, Malvern WR14 1JJ
+44 (0) 1684 891371

Rev 1.0