## dB10 Transducer datasheet

Pulsar's dB10 non-contacting ultrasonic transducers offer compact, robust measurement for liquids and solid application. An innovative approach to transducer design in combating electrical noise, Pulsar has incorporated a low voltage communication and the use of digital echo processing, makes cable splicing issues a thing of the past.







**inch** (104mm)

dB<sub>10</sub>

3.4 inch (86mm)

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## Performance Accuracy:

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Resolution:	0.04 inch (1.0mm)

Operating Temperature: -40 to 194°F (-40 to +90°C)

Beam Angle: Effective 3° full beam angle with algorithms

<10° full beam angle at -3dB, 50KHz

Return Echo: A digital current signal (for eliminating electrical

0.1% of max range.

noise) and returned back to the microprocessor for

signal processing.

Standard Mounting

Mounting: 1" NPT rear

Enclosure Material: Valox 357 PBT (Polybutylene terephthalate)

**Optional Mounting** 

Harsh Chemical Applications: 1" NPT rear - PVDF body

Standard Applications: 2.0" NPT front nose mount

Harsh Chemical Applications: 2.0" NPT front nose mount – PVDF nose

Harsh Chemical Applications: Flange ANSI 2"- 8" – PTFE flange face

Harsh Chemical Applications: Sanitary Flange 3" - PVDF

**Approvals** 

Enclosure Rating: NEMA 6P (IP68)

Area Classification: FM/FMC: Class I, Div. 1, Groups A-D and Class II, Div. 1, Groups E-G . ATEX EEx m IIC

Option Classification: Intrinsically Safe, ATEX EEx ia

**Other Options** 

Flood Applications: Submersible Shield

Intrinsically Safe: I.S. (EEx ia), ATEX Zone 0

Solid Application: Foam Face (solids applications)

**Cable Connection** 

Cable Splicing: Cable splicing is not an issue.

Cable Extension: 3-conductor 20 AWG shield

Maximum Separation: 3,280 ft. (1km) between transducer and transceiver

(12,600 ft. (3.8km) is achievable, contact manufacturer for more information.)

Submersible Shield



Front

PVDF Front Nose Mount



PVDF Body



Flange PTFE Face



Sanitary Flange PVDF



Foam Face



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