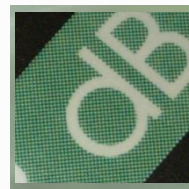


# dB50 Transducer datasheet



Pulsar's dB50 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.



## Measurement Range

Range: 6.6ft. – 164.0 ft. (2.0m – 50.0m)

## Performance

Accuracy: 0.1% of max range.

Resolution: 0.2 inch (5.0mm)

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

Beam Angle: Effective 3° full beam angle with algorithms  
<5° full beam angle at -3dB, 20KHz

Return Echo: A digital current signal (for eliminating electrical noise) and returned back to the microprocessor for signal processing.

## Standard Mounting

Mounting: 1" NPT rear

Enclosure Material: Valox 357 PBT (Polybutylene terephthalate)

## Approvals

Enclosure Rating: NEMA 6P (IP68)

Area Classification: No Hazardous Area Approvals are available for the dB50

## Other Options

Solid Application: Foam Face (solids applications)

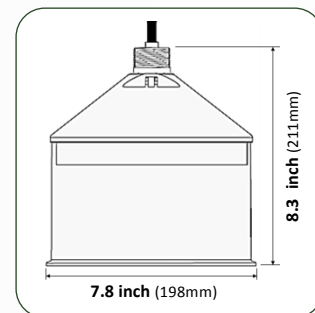
## Cable Connection

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.)

dB50



## Foam Face

