



Technical Specifications:

The dBR radar transducers are non-contacting transducers for level, volume, flow measurement, and pump control. They are compatible with all Pulsar controllers so that you have a specific solution to suit your application requirements. Radar transducers are also retrofittable to all existing Pulsar controllers in the field. Compact, lightweight, and effective radar sensing.



PHYSICAL

Model Options: dBR8 & dBR16 **Sensor Body Dimensions** 90 mm D x 130 mm H (3.54 in x 5.11 in) Weight Nominal 1.1 kg (2.4 lb) dBR8: 8 m (26 ft); dBR16: 16 m (52.5 ft) **Measurement Range** V-band **Fequency Beam Angle Sensor Body Material** Valox 357U Standard: 5 m, 10 m, 20 m or 30 m (16.4 ft, 32.8 ft, 65.6 ft or 98.4 ft). Optional: up to 150 m (492 ft) in **Cable Lengths** 10 m (32.8 ft) increments **Maximum Separation** 500 m (1,640 ft) 1" BSP or NPT **Mounting Connection Mounting Options** ANSI or DIN flange

ENVIRONMENTAL

Enclosure ProtectionIP68/NEMA 6PMax. & Min. Temperature (Electronics)-20 °C to +80 °C (-4 °F to +176 °F)Process Pressure-1 to +4 bar (-14.5 to 58 psi)

APPROVALS

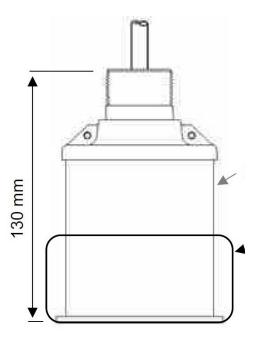
Complies with EN61326-1:2013 for emissions and immunity
Complies with EN302-729:2016 for radar emissions and immunity

ATEX Zone 0 (Ex ia): Ex II 1 G Ex ia IIC T4 Ga Ta = -20 °C to +80 °C, Ex II 1 D Ex ia IIIC T135 °C Da Ta =-20 °C to +80 °C.

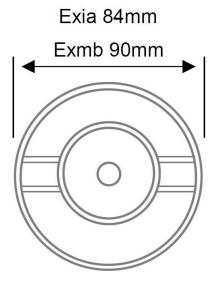
ATEX Zones 1 & 2: Ex II 2 G Ex mb IIC T4 Gb, Ex II 2 D Ex mb IIIC T135 °C Db

PERFORMANCE

Accuracy±2 mm (0.08 in)Repeatability±1 mm (0.04 in)Resolution±1 mm (0.04 in)Near Blanking Distance77 mm (3.03 in) from the drip shield



Radar Drawing with Drip Shield



Radar Diameter Drawing

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia allow us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

www.pulsarmeasurement.com



INFO@PULSARMEASUREMENT.COM

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11451 Belcher Road South Largo, FL 33773

888-473-9546

Canada

16456 Sixsmith Drive Long Sault, Ont. KOC 1P0 855-300-9151 **United Kingdom**

Cardinal Building, Enigma Commercial Centre Sandy's Road, Malvern WR14 1JJ

+44 (0) 1684 891371