

Level

Volume

Flow

Pump Control

Differential

mmWave Radar

Non-Contacting Radar Transducer

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



Technical Specification:

PHYSICAL:

Model:	dBR16
Dimensions:	90Dmm x 130Hmm (3.54in x 5.11in)
Weight:	Nominal 1.1kg (2.4lbs)
Measurement Distance:	16m (52.5ft)
Frequency:	V-band
Beam Angle:	8°
Sensor body material:	Valox 357U
Cable lengths:	Standard = 5m, 10m, 20m or 30m (16.4ft, 32.8ft, 65.6ft or 98.4ft). Optional: up to 150m (492ft) maximum (increments of 10m / 32.8ft only)
Maximum separation:	500m (1640ft)
Mounting connection:	1" BSP or NPT

ENVIRONMENTAL:

Enclosure protection:	IP68 / NEMA 6P
Max. and min. temperature (electronics):	-40°C to +80°C (-40°F to +176°F)
Process pressure:	-1 to +4 bar (-14.5 to 58 psi)

APPROVALS:

CE approval:	Complies with EN61326-1:2013 for emissions and immunity Complies with EN302-729:2016 for radar emissions and immunity
ATEX approval:	ATEX Zone 0 (Ex ia) approved. 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 mb) pending.

PERFORMANCE:

Accuracy:	±2mm (0.08in)
Repeatability:	±1mm (0.04in)
Resolution:	±1mm (0.04in)
Near blanking distance:	77mm (3.03in) from the drip shield

Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.

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