EchoPulse[®] LR25

Pulse Radar Liquid Level Transmitter



Application

The general purpose 6.3 GHz. pulse radar transmitter provides continuous level measurement up to 114.8' (35m) with a 4-20 mA signal output, and is configured via its integral push button display module. The non-contact liquid level sensor is intended for chemical and petroleum storage or process applications in above grade metal or reinforced concrete tanks or below grade tanks of any material. Select this sensor for harsh process conditions with corrosive or low dielectric media, heavy surface foam or agitation, higher pressure, steam, condensation or vapor, and installation in a flange fitting. Due to the wider beam angle, special attention should be given to ensure that the sensor is located with unobstructed measurement space. Typical applications include process tanks.



Features

- 316L antenna with PTFE inner shield for corrosive media
- Simple configuration via integral push button display module
- 6.3 GHz. pulse radar is unaffected by most foam and agitation
- 12" (30cm) dead band enables utilization of the entire tank
- LCD displays level in feet or meters with percent of span bar
- Optional display mode indicates the echo signal return curve
- Auto-temperature compensation for accurate measurement
- Fail-safe diagnostics with selectable signal fail-safe outputs
- Recognition, storage and rejection of false echo signal returns
- Rugged IP67 aluminum enclosure with polycarbonate window

LR25-0310-40 Shown

Success

Based upon the type of inflow and system design, not all wastewater neutralization processes are the same. Here, a LR25 is mounted on a 12' neutralization tank with agitation, foam and vapor. Its wide beam, low frequency, 6 GHz. pulse radar measurement is unaffected by most process conditions, and is the right choice for difficult applications where other level sensors may not perform.





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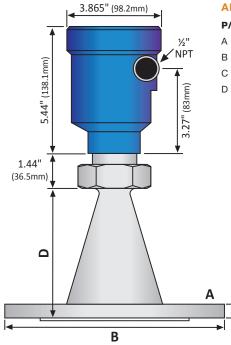
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Specifications

Range:	12" to 114.8' (30cm to 35m)	
Frequency:	6.3 GHz.	
Accuracy:	± 10mm	
Dead band:	12" (30cm)	
Beam angle:	20°	
Configuration:	Push button	
Memory:	Non-volatile	
Display type:	LCD, dot matrix	
Display units:	Feet and meters	
Display bar:	Percent of span	
Display graph:	Echo signal curve	
Supply voltage:	16-26 VDC	
Max. consumption:	22.5 mA	
Signal output:	4-20 mA, two-wire	
Signal invert:	4-20 mA, 20-4 mA	
Signal fail-safe:	3.9 mA, 20.5 mA, 22 mA	
Process temp.:	F: -40° to 266°	
	C: -40° to 130°	
Temp. comp.:	Automatic	
Storage temp.:	F: -40° to 176°	
	C: -40° to 80°	
Pressure:	-14.5 to 580 psi (-1 to 40 bar)	
Enclosure rating:	IP67	
Encl. material:	Aluminum w/silicone gasket	
Encl. window mat.:	Polycarbonate	
Conduit entrance:	(1) 1/2" NPT connector	
	(1) M20 x 1.5 plug	
Antenna material:	316L w/PTFE inner shield	
Process mount:	- 40: 4" flange (ANSI)	
	- 60: 6" flange (ANSI)	
Classification:	General purpose	
Certification:	cTUVus	
	FCC	
Compliance:	CE, CRN, RoHS	

Dimensions



ANTENNA/FLANGE

P/N	-40	-60
A	4" ANSI	6" ANSI
В	9.0" (228.6mm)	11.0" (279.4mm)
С	0.57" (14.5mm)	0.63" (16.1mm)
D	5.7" (145mm)	9.7" (247.7mm)

Compatible Products



Ordering

FLANGE SIZE (1) -

- 4 4" ANSI
- 6 6" ANSI



NOTES

 If you want help in selecting a sensor for your application, please go to our website and submit a Level Questionnaire. An engineer will review your requirements and suggest a product solution via email.