

LoRaWAN Radar 26GHz Lens Level Sensor WSLRW-RD26L

SKU: WSLRW-RD26L

Doc No: WSLRW-RD26L-DS-EN-10

LoRaWAN RADAR 26GHZ LENS LEVEL SENSOR WSLRW-RD26L

LoRaWAN



WSLRW-RD26L-H1.PNG

INSTALLED ON STEEL GRAIN SILO



WSLRW-RD26L-H2.PNG

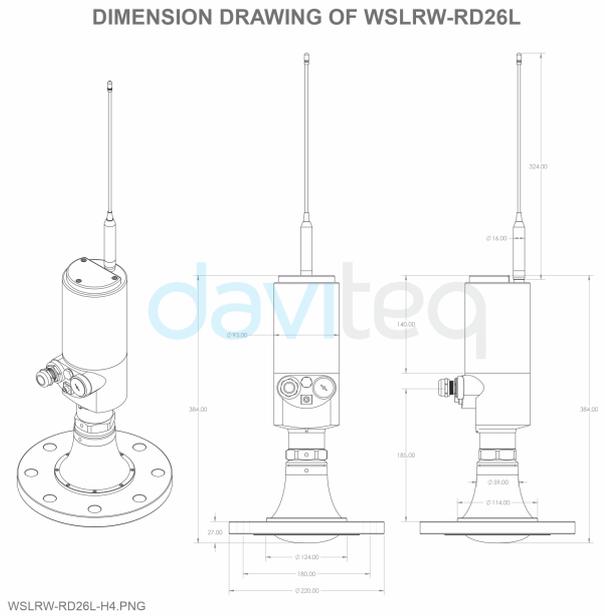
Introduction

WSLRW-RD26L is K-band radar level sensor with special lens for Solid or Liquid measurement. With special lens design, it will be not affected by coagulation/hanging/operating medium/sediment and dust. It can measure up to 70m range with small beam angle 8 degree. With Ultra-low Power design and smart firmware allow the sensor can last up to years with 12 x AA-type battery (depends on configuration). The sensor will transmit data in kilo-meters distance to LoRaWAN gateway, any brand on the market.

- Measuring any liquid of solid;
- Not affected by Dust
- Range up to 70m;
- Support LoRaWAN connectivity;
- Ultra-low power with 10 years battery;
- Plug & Play.

Typical Applications

- Level measurement in Silo for Solid, Grain, Powder...
- Level measurement in Tank for Liquid, Water, Chemical, Oil...



Specification

SENSOR SPECIFICATION	
Sensor technology	26 GHz Pulse radar with lens
Measurement range	30, 70m
Resolution	1.0 mm
Accuracy	+/- 5.0 mm
Beam angle	8 degree
Lens material	Nylon/PEEK/PTFE/POM
Process temperature	-40 .. + 85oC standard, +120 oC optional
Process pressure	-1 .. + 4 barg
Ambient working temperature	-40 .. + 85 oC
Ambient working humidity	0 .. 95% RH, non-condensing
LORAWAN SPECIFICATION	
Data rate	250bps .. 5470bps
Antenna	Antenna 2.67 dbi
Battery	12 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930 MHz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN Class A
Data sending modes	interval time, alarm occurred and manually triggering by magnetic key. Recommend max 24 messages per day.
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval	TBA
Ambient temperature	-40oC..+60oC (with AA L91 Energizer)

Dimensions	220x220x450 (without antenna)
Net-weight	< 10 kgs
Housing	Aluminum + Polycarbonate plastic, IP67

Ordering Codes

Item code	Descriptions
WSLRW-RD26L-30-01	LORAWAN RADAR 26GHZ LENS LEVEL SENSOR, SUS304 JIS10K 100A RF FLANGE, 0-30M CALIBRATED RANGE, IP67 ALUMINUM HOUSING, 860-930 MHZ FOR EU868, IN865, KR920, AS923, AU915, US915
WSLRW-RD26L-70-01	LORAWAN RADAR 26GHZ LENS LEVEL SENSOR, SUS304 JIS10K 100A RF FLANGE, 0-70M CALIBRATED RANGE, IP67 ALUMINUM HOUSING, 860-930 MHZ FOR EU868, IN865, KR920, AS923, AU915, US915

 Link for full datasheet: <https://filerun.daviteq.com/wl/?id=X4neiF4Z1RYpWWigKFr4ma3Gkl7Fgy8T>

 Link for manual:

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