Wireless Sub-GHz Laser Level Sensor WS433-LSL

SKU: WS433-LSL

Doc No: WS433-LSL-DS-EN-10



WS433-LSL-H1.JPG



WS433-LSL-H2.JPG

Introduction

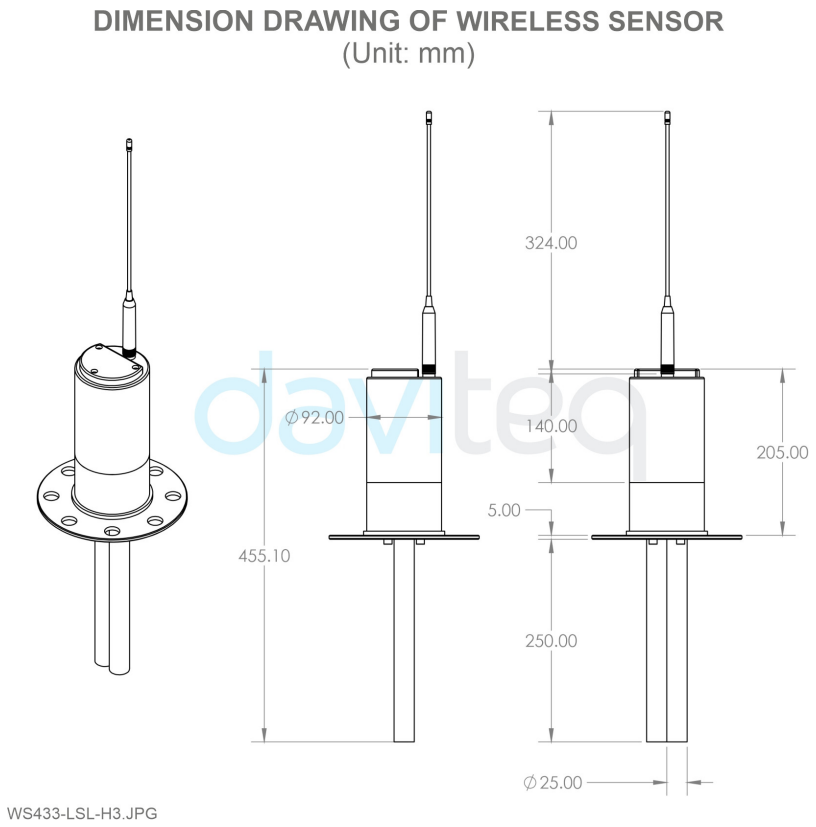
WS433-LSL is a low-power laser level sensor for Solid level measurement. With a dust tube accessory, it can be used in high dust environments like cement, grain, powder... It can measure up to 100m range. The wireless portion is Sub-GHz technology allows long-range transmission at ultra-low power consumption. It will connect wirelessly to a Wireless Co-ordinator WS433-CL or an IoT gateway with a built-in Coordinator. It can be configured the operation parameters like data sending interval, health check cycle... The complete set of the wireless laser-level sensor can be powered by 6 x AA 1.5V batteries for up to 10 years (depending on interval time).

- Range up to 100m;
- Support Sub-GHz wireless;
- Ultra-low power with 10 years battery;
- Plug & Play.

Typical Applications

- Level measurement in Tank;
- Level measurement in Silo;
- Level measurement for any non-dark surface.

Dimension Drawings



WS433-LSL-H3.JPG

Specification

SENSOR SPECIFICATION	
Sensor technology	Eye-safe laser level sensor, class II laser
Measurement range	Select 50, 100m
Dead zone	0.03 m
Resolution	1.0 mm
Accuracy	+/- 5.0 mm
Dust tube	Yes, standard
Air purging port	1/4" NPT quick connector
Process temperature	-10 .. + 60 oC standard
Ambient working temperature	-10 .. + 60 oC
Ambient working humidity	0 .. 95% RH, non-condensing
WIRELESS SPECIFICATION	
Data speed	50kbps (default), 625 bps
Transmission distance, LOS	400m (2m height from ground)
Antenna	Internal Antenna

Battery	06 x AA 1.5VDC
Frequency Band	ISM 433.92 Mhz, Sub-GHz technology from Texas Instrument, USA
International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval Certification	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
Security Standard	AES-128
Mounting Method	JIS10K 80A Flange
Ambient temperature	-10oC..+60oC (with AA L91 Energizer)
Dimensions	220x220x450 (without antenna)
Net-weight	< 5 kgs
Housing	Aluminum + Polycarbonate plastic, IP67

Ordering Codes

Item code	**Descriptions**
WS433-LSL-50	WIRELESS SUB-GHZ LASER LEVEL SENSOR, RANGE 50M, 3-INCH FLANGE, DUST TUBE, IP67, AA BATTERY POWERED
WS433-LSL-100	WIRELESS SUB-GHZ LASER LEVEL SENSOR, RANGE 100M, 3-INCH FLANGE, DUST TUBE, IP67, AA BATTERY POWERED

⚠ Link for full datasheet: https://filerun.daviteq.com/wl/?id=cyV6RMRRCwKzTu0Azj9i4XUuzZiP0oHd

⚠ Link for manual:

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