

DRC3-L



LoRaWAN® IP68 Rated Corrosion Resistant Low Power Radar Distance and Level Sensor

- Compatible with all LoRaWAN® frequencies
- Wide range of industrial applications
- High accuracy and repeatability
- Designed to meet outdoor and underground applications
- Long-term durable performance in harsh environment
- Ultra-low power
- Suitable for liquid and solid media



TECHNICAL SPECIFICATION

Sensor

• Range	10	30	m
• Accuracy (combined linearity, hysteresis, repeatability):	±5	±2	mm
• Resolution	Sub mm	Sub mm	
• Sensor Minimum Distance	0 ~ 20	0 ~ 20	cm
• Process Pressure:	-1 to 3	-1 to 3	bar
• Frequency:	80	80	GHz
• Beam angle:	8	4	°
• Compensated Temperature:	-20 ~ +60	-20 ... +80	°C

Power

• Power Supply	Built-in Replaceable Lithium Battery, External Power (option)
• Rated Voltage (V)	3.6
• Battery Lifetime	5,000+ readings and 5,000+ transmission (More than 5years for most applications)

Physical

• Materials	Enclosure: POM, Sensor Head: PVDF, Seal: PKF
• Weight (g)	~700
• Protection Rate	IP68, UV Protected

Communication

• LoRaWAN® Version, Class	1.0.2revB, Class A (Class C on request)
• LoRaWAN® Frequency Zone	AS923, EU868, US902-928, AU915-928 (other zones available on request)
• LoRaWAN® Activation Type	OTA (default), ABP
• Sampling Type	Periodic (default), Event triggered
• Sampling Period	Configurable via downlink (default 4 hours)
• Transmission Type	Per sample (default), Event triggered, Conditional
• Parameter Configuration	Over-the-air via LoRaWAN® downlinks Locally via wireless connectivity
• Firmware Update	Locally via Wireless Connectivity, Over The Air

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NETWORK CONNECTION AND VISUALIZATION

Network Integration

- Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Lorient, machine-Q, Objenious, Orange, Orbiwise, Proximus, Senet, Sens, Swisscom, TATA, The Things Network (TTN), TTI and any other network)

Visualization And Data Management

- 10Sorex white label microservice platform, and Integratable to all main IIoT platforms directly or through the api (AWS, Azure, PTC ThingWorx, Bosch IoT, Cisco Jasper & Kinetic, Sierra Numerex, MathWorks, ThingSpeak, GE Digital Predix, LandisGyr, Siemens MindSphere, Cumulocity, myDevices, Ubidots, TagoIO, ALSO AllThingsTalk, HPE IoT and any other major IoT platform).

10Sorex Platform Main Features

- Encrypted ultra-low power communication protocol
- Advanced device inventory
- Integration APIs for enterprise systems
- Multi-tenant role-based access control
- Data export and import
- White-label platform for enterprise runs on private account
- Variable alarm setting for high and low thresholds and multi-channel alerting
- Sampling and transmission interval configuration
- Transmission condition configuration
- Other configurations and customization available on request



Encrypted &
ultra-low power



Integratable



Dynamic alerting



Multi-tenant



Scalable


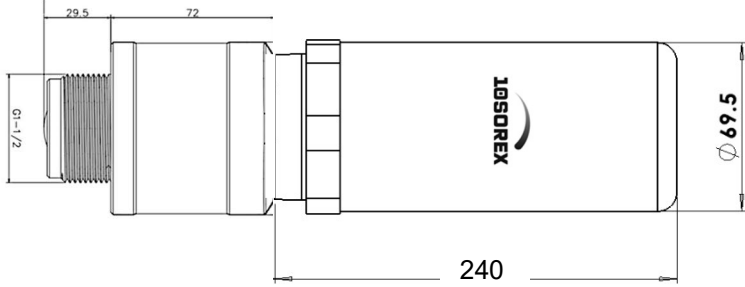


Composable &
API first



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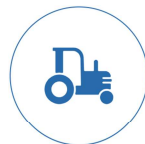
MODEL GUIDE

Model	Options:
<p>C Model:</p> 	 <p>Cylindrical compact, POM enclosure and high gain antenna built inside the enclosure</p>

INDUSTRIES



Water &
Environment



Agriculture &
Farming



Oil & Gas



Marine &
Oceanography



Mining &
Construction



Smart Building &
HVAC

APPLICATIONS

- Flood alarming
- Corrosive Liquid Storage
- Manhole and underground water way
- Wastewater Tank



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ORDERING CODE

DRC3-L									
		LoRaWAN Frequency Zone							
		AS (AS923)		AUx (AU915-928) (Sub Band x)		EU (EU868)		USx (US902-928) (Sub Band x)	
		LoRaWAN Activation							
		A (Over The Air Activation - OTAA)				P (Activation By Personalization - ABP)			
		Measurement Range							
		10, 30 Meters							
		Device Activation							
		X: No Switch (always on)				Others on request			
		Antenna Option							
		I: Internal			E: on request				
Options									
(On request)									
DRC3-L	AS	A	10m	X	I				

Sample Product Code:

- DRC3-L-AS-A-10m-X-I

LoRaWAN[®] corrosion resistant radar distance sensor, frequency AS923, over the air activated, measurement range of 10m, with cylindrical housing (compact and IP68 rated), always on and with internal antenna.

