

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



#### **TECHNICAL SPECIFICATION**

Sens	or	
•	Range (m)	5, 10
•	Accuracy	±1 (typ.) (combined linearity, hysteresis, repeatability) (%Span)
•	Resolution (mm)	1
•	Sensor Minimum Distance	0 ~ 20cm for 5m range
		0 ~ 50cm for 10m range
•	Reading-to-reading stability	1mm in 1m (Typ)
•	Compensated Temperature (°C)	-10 ~ +60
Power		
•	Power Supply	Built-in Replaceable Lithium Battery, External Power (option)
•	Rated Voltage (V)	3.6
•	Battery Lifetime	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)
Physical		
•	Materials	Enclosure: POM
•	Weight (g)	~500
•	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





#### NETWORK CONNECTION AND VISUALIZATION

#### **Network Integration**

Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Loriot, 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, TagolO, 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



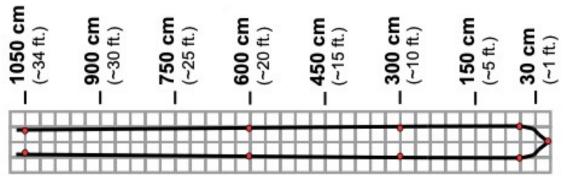
www.10sorex.com



Sales@10sorex.com

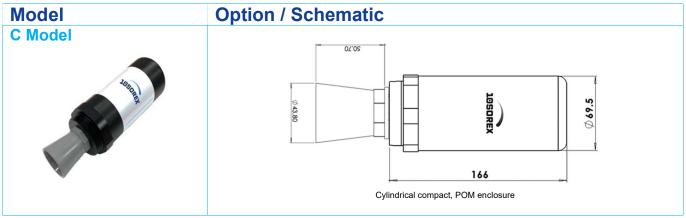


#### **BEAM PATTERN**



Typical beam patter for 30cm target mover left and right with the board parallel to the sensor face

#### **MODEL GUIDE**



#### **INDUSTRIES**



Water & Environment



Marine & Oceanography



Agriculture & Farming



Mining & Construction



Oil & Gas



Smart Building & **HVAC** 

#### **APPLICATIONS**

- **Under Ground Water Tank Level Monitoring**
- Under Ground Diesel Tank Level Monitoring
- Flood Monitoring

- **Distance Measurement**
- Long Range Object Detection
- **Under Ground**



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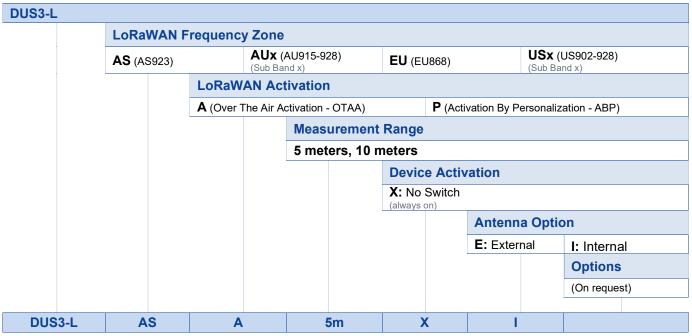
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#### **ORDERING CODE**



#### **Sample Product Code:**

• DUS3-L-AS-A-5m-X-I

LoRaWAN® ultrasonic distance sensor, frequency AS923, over the air activated, range of 5m, with C8 housing (compact and IP68 rated), always on and with internal antenna.

