Product Data Sheet

Defender Slim Sensor

Amazon Sidewalk-based solution

Help protect your location with smart leak and freeze monitoring

The Defender Slim Leak and Freeze Sensor, part of the Meshify Defender™ sensor solution suite, detects leaks and temperature changes that cause property and equipment damage. With an ultra-thin design, the sensor fits under any appliance or narrow space.

Suitable for habitational, commercial, and residential environments, the Defender Slim leverages the Amazon Sidewalk network and patent-pending Meshify Relay protocol for long range connectivity. The sensor is easy to setup in any location without the need for Wi-Fi.

Key features:

- Wireless, battery-powered Amazon Sidewalk leak and temperature sensor

- Detects water on contact

- IP66 (ingress protection) rated for protection against dust and high-pressure water jets

- Easy activation and installation in less than 3 minutes, without any tools

meshify defender®

Meshify's next generation sensor supports a variety of property and equipment monitoring applications with long range and extended battery life.

meshify protect™

Meshify Protect mobile app (iOS and Android) for activating Meshify sensors and monitoring locations, even when no one is there. Slim website app is also available.

For more information, contact:
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Technical and functional system specifications

Mechanical	Dimensions	2.2" x 3.37" x 0.29" (56.1mm x 85.6mm x 7.3mm)
	Weight	1.38 oz (39g)
	Case Material	PC-ABS
	Operating Temperature	-25°F to 158°F (-4°C to +70°C)
	Storage Temperature	≤30ºC, 75% RH
	IP Rating	IP66
Physical Interface/Connections	Device Protocols	Sidewalk LoRa, Sidewalk BLE, BLE Beaconing
	Flash Storage	4 MB External
Power Requirements	Internal Battery	1x 3.0V Li
	Battery Life Cycle	Up to five years on six-hour check-in interval
LoRa Radio	LoRa Class	Class A
	ISM Bands	902-928Mhz (LoRa) 2.4Ghz (BLE)
	Tx Power	15 dBm Max
	Wireless Range	Indoors: Up to 350 ft. (106.7 meters) Outdoors: Up to 1,000 ft. (304.8 meters)
Sensor(s)	Water Sensitivity	400k Ohm trigger point. Water less conductive than this will not set off the detector.
	Temperature	-40°F to 185°F, ± 0.45°F (-40°C to +85°C, ± 0.25°C)
Certifications	Regulatory	FCC, IC
	Environmental	RoHS compliant

works with amazon sidewalk

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