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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:
HSB Sensor Solutions
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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	0°F to 140°F (-18°C to +60°C)
	Storage Temperature	≤30ºC, 75% RH
	IP Rating	IP66
Power Requirements	Internal Battery	1x 3.0V Li
	Battery Life Cycle	Up to five years on six-hour check-in interval
Sensor(s)	Water Sensitivity	400k Ohm trigger point. Water less conductive than this will not set off the detector.
	Temperature	0°F to 140°F, ± 0.45°F (-18°C to +60°C, ± 0.25°C)
Connectivity	Device Protocols	Amazon Sidewalk, BLE Beaconing, LoRa
	RF Frequency	902-928MHz (LoRa) 2.4Ghz (BLE)
	Tx Power	14 dBm to 20 dBm
	Wireless Range	Indoors: Up to 350 ft. (106.7 meters) Outdoors: Up to 1,000 ft. (304.8 meters)
Certifications	Regulatory	FCC, IC, LoRa Alliance®
	Environmental	RoHS compliant

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

works with amazon sidewalk

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