ROBOTEYE

SENSE

Smart Sensor for Wide Area Mesh Presence Detection

Sense is a compact presence detection device utilizing LoRa technology, designed to operate either the Hub or Mini Hub, providing extensive area coverage up to a 3 km radius. By creating a mesh network, Sense enhances its coverage and reliability by allowing seamless communication between multiple devices. Featuring 2 PIR sensors and utilizing Edge AI, Sense detects the presence of humans, animals or vehicles. Evaluates signals and sends data to the Hub or Mini Hub without the need for Satellite or GSM Network, relying solely on LoRa for data transmission.

TECHNICAL SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	PARAMETERS	SPECIFICATIONS
Weight[1]	300 g	Data Transmission	LoRa
Dimension	55x95x55 mm	Wake-up Method	PIR and LoRa
Power Source	2 x Li-ion 18650 Rechargeable Batteries (Internal)	Illumination	Infrared (IR) LED (Invisible)
Operation Time[2]	180 days	Data Encryption	AES - 256
Operating Temperature	-20 to +50 ºC	Wake-up Range	~18 m
Ingress Protection Class	IP67	Coverage[3]	~3 km

[1] May vary depending on configuration. [2] Operation time depends on battery capacity and number. [3] Coverage area varies according to the Line of Sight.