superfy

SMARTPHONE APPLICATION FOR EASY USE

Superfy Platform
Ingest and manage all your asset data through the Superfy Platform

Superfy Mini Fill Level Sensor

for Smart Waste and Recycling Management

The **Superfy Mini Fill Level Senso**r is a smart waste management sensor for monitoring the fill level status of all waste and recycling materials across a wide range of containers and bins.

The **laser or ultrasonic sensor implementation** provides accurate distance and fill level sensing capability, up to 4.5 m. A robust enclosure includes a long lasting battery* and cellular connectivity options for NB-IoT/Cat M or LoRaWAN.

Used in conjunction with the **Superfy Platform**, the sensor can enhance the operational and sustainability performance around the monitoring, collection and transport of waste and recycling material.

Ideal for smart cities, commercial waste and recycling collectors, construction sites, estates and parks, campuses and shopping malls.

Key Features

- Mobile app for ease of use and configuration
- Long lifetime replacable batteries of up to 7 years*
- Robust waterproof enclosure
- Built-in 3-axis accelerometer sensor to monitor device tilt status
- Flame retardant enclosure

Laser or Ultrasonic Sensor options

Long Lifetime
Up to 7years year battery lifetime*

Laser Sensor
With 2-350 cm wide detection range

Ultrasonic Horn
With 3 to 4.5 m detection range

Robust Waterproof Enclosure
IP67 rated enclosure

Ease of Use
Simple configuration with Superfy App

Multiple Sensors
Temperature, Accelerometer

Typical Applications

Waste and Recycle Bins | Smart Cities | Telematics | Document Shredding | Commerical Haulers | Construction | Clothing Donation | Agriculture | Smart Campus

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SPECIFICATIONS

Sensors

Capability	Distance, Temperature, 3-axis Accelerometer
Distance measurement	Ultrasonic / Laser
Minimum / Maximum distance (Ultrasonic)	3 cm / 450 cm (Ultrasonic)
Minimum / Maximum distance (Laser)	ToF FoV 27° Detection Range: 2 ~ 350 cm Detection Accuracy: ±2 cm (- 20°C ~ 70°C) Detection Resolution: 1 mm
Measurement calculation	Multi measurement with weight approximation

Connectivity

Connectivity	NB-IoT/Cat-M, GNSS
Adaptive Data Rate	Yes
Downlink configuration	Yes
Measurement times	Up to 48 readings per day

Physical

Dimensions	118 × 65 × 30 mm (L x W x H)
Operational temperature	- 30°C ~ +70°C (-22°F ~ +158°F)
Enclosure	ABS + PC (Flame Retardant)

Power

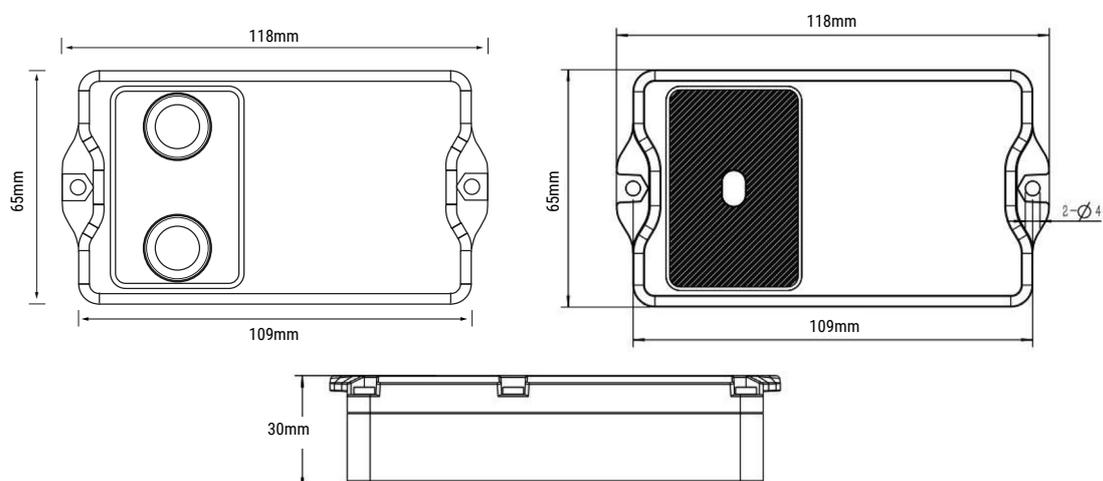|	
Power supply	2 x 9000 mAh ER26500 Li-SOCL2 replacable Batteries
Battery life	Up to 7 years (Estimated battery life, 4 Times Report per Day)*

Environmental

IP Rating	IP67

Certifications

Certifications	CE, FCC, IC, EAC, ROHS

*Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.In some circumstances these environmental factors can materially affect the expected battery life of a device.