



BriteBin™ Platform Ingest and manage all your asset data through the BriteBin™ Platform

Long battery **Ultrasonic Sensor*** lifetime Capture the Up to 5 topology of the years. contents in the container. IP66 Rated **Enables** submersion for short time **Dual Optical Sensors** Hardened Plastic For accurate **Enclosure** distance and fill level Hardened plastic **Multiple Connectivity** measurements. LTE CAT-NB1 or enclosure allows for robust installation in CAT-M1 harsh environments.

*Ultrasonic sensor is available as an optional extra

BriteBin™ Pro Fill Level Sensor

for Smart Waste and Recycling Management

The BriteBin™ Pro Fill Level Sensor 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 dual optical sensor implementation provides accurate distance and fill level sensing capability, up to 5m. A robust enclosure includes a long lasting battery and cellular connectivity options for LTE CAT-NB1 and CAT-M1.

Used in conjunction with the **BriteBin™ Platform**, the sensor automates 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 centres.

Key Features

- Multi-technology distance sensing up to 5m
- Accurate, real-time fill level and temperature sensing
- Sensing suitable for containers and bins of various sizes, shapes and materials
- Multiple connectivity options LTE CAT-NB1 or CAT-M1
- Long lasting, replaceable dual lithium-thionyl chloride (Li-SOCL2) batteries
- Emergency alerting system for high temperatures, tip and relocation
- IP66 rated for harsh waste environments

Typical Applications



Bins





Smart Cities



Telematics















pelmfg.com



Superfy Pro Fill Level Sensor

for Smart Waste and Recycling Management

SPECIFICATIONS

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OCII3013				
Capability	Distance, Temperature			
Distance measurement	Optical / Ultrasonic*			
Minimum / Maximum distance	Optical - 1cm / 500cm Ultrasonic* - 1cm / 240cm			
Measurement calculation	Multi measurement with weight approximation			
Temperature measurement	Yes			
Connectivity				
Connectivity	LTE CAT-NB1, CAT-M1			
Device class	Class A			
Adaptive Data Rate	Yes			
Downlink configuration	Yes			
Measurement times	Up to 48 readings per day			
Physical	- p - · · · · · · · · · · · · · · · · ·			
Weight (batteries included / excluded)	358g / 165g			
Dimensions	129 x 74 x 50 mm (L x W xH)			
Turn on mechanism	Magnetic			
Cover	Recyclable, polyamide with optical fibers			
Power				
Power supply	Up to 5 years (battery duration depends on local temperature, type and position of the bin, and frequency of measurement)			
Batteries voltage and capacity	3.6V, 2600 mAh			
Batteries type	Lithium-thionyl chloride (Li-SOCL2)			
Battery replaceable	Yes, 2 batteries type LS14500 (2 x 54 grams)			
Environmental				
Temperature	-30°C ~ 70°C (Test Standard: IEC60068-2-1 & 2)			
Relative Humidity	25 ~ 55°C / 55 ~ 95% RH (Test Standard IEC60068-2-30)			
Storage Temperature	-30°C ~ 60°C			
Storage Relative Humidity	10 ~ 90% RH			
Shock	15G, half sine, 15 ms (Test Standard: IEC60068-2-27)			
Vibration	5 ~ 150Hz 1G acceleration operating (Test Standard: IEC60068-2-6)			
IP Rating	IP66			
Certifications				
Certifications	CE, FCC, RCM, PTCRB, UKCA			

 $[\]hbox{*Ultrasonic sensor is available as an optional extra.}\\$

