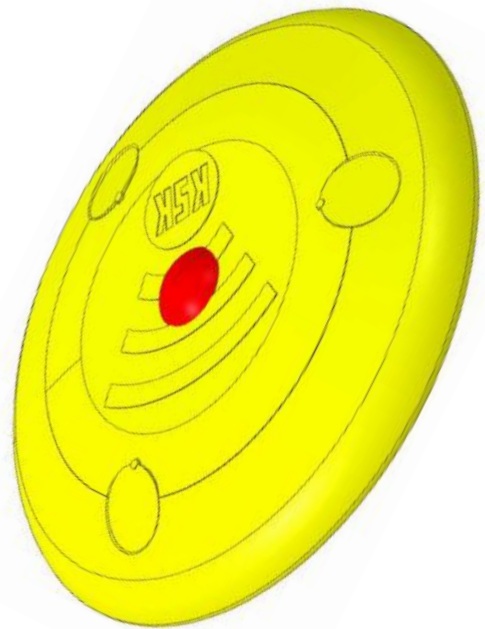


**Product description:**

The garbage collection sensor for litter bins is an innovative device that allows you to easily and conveniently monitor the filling of litter bins. The sensor based on radar detection is resistant to changing environmental conditions, dirt, etc., therefore it guarantees a very high detection efficiency ensuring the service life of the device at least 2 years. The management system can monitor its fill level conducting in real time an effective and informative policy of use. These sensors can be integrated with a wireless communication system that transmits real-time data to the waste management company, providing insights into the status of each bin.



**Technical specification:**

<b>Supply voltage:</b>	3,6 VDC
<b>Current consumption:</b>	120mA (pulse), 1.6uA avg
<b>Detection:</b>	radar based
<b>Temperature effect:</b>	battery life decreased in temperatures <-20C
<b>Enclosure:</b>	Polycarbonate
<b>Operation conditions:</b>	-25° do +80° C;
<b>Wymiary:</b>	Height: 18.9 mm Diameter: 137 mm
<b>Flamability UL 94:</b>	V0
<b>Connection:</b>	Wireless connection LoRaWAN 868MHz or SigFox
<b>Ingress protection:</b>	IEC IP68
<b>Mechanical resistance and vibration:</b>	IEC 61984 and UL773 Mechanical: 3g, 11 ms semi sinusoid, 18 aftershocks Vibration: 0.5 mm p-p, 10 to 60 Hz
<b>Communication protocol:</b>	LoRaWAN
<b>Product placement:</b>	

The device from our company is mounted inside of the trash bin on the lid to measure the level of filling with waste.

Attach the sensor to the surface of the large lid with 3 self-tapping screws. Make sure the sensor is securely attached and properly aligned.

Connect the sensor to the monitoring system using the supplied wireless connection.

Follow the manufacturer's instructions for proper installation and connection.



**Markings:**

Product is CE marked

**Warnings:****Improper use:**

KSK Developments allows the device to be used only as intended, i.e., to monitor garbage level in an enclosed container.

KSK Developments shall not be liable for any damages related to the use of the system contrary to its intended use.

**Incorrect connection:**

The device is designed to work with a rated voltage of 4.5 V. Connection of a different voltage may cause irreparable damage to the equipment.

KSK Developments is not responsible for damages related to incorrect connection of the device.

**About:**

This document concerns the system developed by KSK Developments sp. z o.o.

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