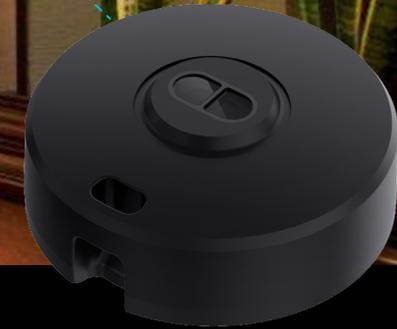




MOKO SMART

Compact | Durable

Time-of-flight Ranging Beacon



TOF ranging sensor, a Bluetooth Beacon that utilizes Time-of-flight technology to achieve distance measurement. It is based on BLE 4.2 and designed to be compact and IP67 waterproof, making it suitable for real-time usage monitoring by attaching it to soap dispensers, tissue boxes, or trash cans. It can also be deployed in restrooms for real-time occupancy monitoring, reducing regular maintenance costs.

With its 600mAh large battery and periodic working mechanism, the product guarantees a lifespan of more than 3 years, making it the preferred choice for IoT-enabled smart offices, factories and plaza.

Key point



IP67 waterproof



3+ years battery life



Compact design



Up to 3m ranging distance



Millimeter ranging accuracy



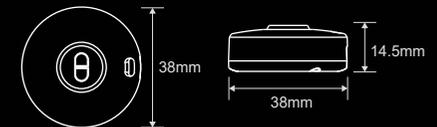
Periodic working mechanism

General specs

Connectivity:	BLE 4.2
Dimensions:	Φ38.0*14.5mm
Color:	Black
Material:	PC
Weight:	25g
IP rating:	IP67
Battery capacity:	600mAh Replaceable
Battery lifespan:	3 years - Short range mode(<1.2m) 2 years - Long range mode(1.2m-3m)
Operating temperature:	-20°C to 60°C
Transmission range:	150m (in open area without obstacles)
Installation:	3M sticker
Certification:	FCC CE RoHS REACH Bluetooth

TOF Sensor Specs

Max. distance:	3000mm
Min. distance:	40mm
Ranging error①:	±10mm in short range (<0.1m) ±5% in medium range (0.1m-1.2m) ±1% in long range (1.2m-3m)
Field-of-view(FOV):	27°



Application scenarios



Office/Supermarket

- Trash bin fill level detection
- Paper and towel dispenser fill level detection



Warehouse

- Stock count
- Inventory level monitoring



Toilet

- Occupancy detection
- Soap dispenser fill level detection

*① Adv interval = 1000ms, Standby duration = 0, Tx Power = 0dBm, without accelerometer sensor.