

The S02R ToF range sensor, a Bluetooth Beacon that utilizes Time-of-flight technology to achieve distance measurement. It is based on BLE 5.0 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 to reduce 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



waterproof



3 years battery life



Compact design



Up to 3m ranging distance



Millimeter ranging accuracy



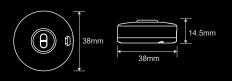
Periodic working mechanism

General specs

Connectivity:	BLE 5.0
Dimensions:	Ф38.0*14.5mm
Color:	Black
Material:	PC
Weight:	25g
IP rating:	IP67
Battery capacity:	600mAh Replaceable
Battery lifespan:	3 years - Short range mode(<1m)
	1 year - Long range mode(1m-3m)
Operating temperature:	-20°C to 60°C
Transmission range:	150m (in open area without obstacles)
Installation:	3M sticker
Certification:	FCC CE RoHS REACH

ToF Sensor specs

Max. distance:	3000mm
Min. distance:	40mm
Ranging error①:	±10mm in short range (<0.1m)
	±5% in medium range (0.1m-1m)
	±1% in long range (1m-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