

EYE SENSOR

BLE ID BEACON WITH SENSORS - BTSMP1



LONG LIFETIME

600 mAh capacity, 5+ years long battery life

WATERPROOF

IP67 protection casing with handy two mounting points

MOBILE APP

Easy to use mobile app for configuration, data scanning, and updating

4 SENSORS SET

Temperature, Humidity, Movement, Magnet detection sensors

Wireless solutions open up new horizons for your business and help to keep an eye on your assets and their essential parameters. Discover our brand-new and certified Bluetooth Low Energy ID sensor model from Teltonika with a robust lightweight casing and a long-lifetime battery. The model designed for a low-cost fast and easy configuration and integration to save precious time, resources, ensure timely monitoring and accountability.

Perfect for traceability use cases, delivery tracking, monitoring of various movable objects in logistics (trailers, containers), agriculture (tractor attachments), and constructions (tools and inventory). Sensors data makes it especially suitable for cold chain refrigerator use cases. The built-in accelerometer can detect item movement or fall events. Magnet detection can be used for wireless open/close detection and notifications such as trailer door events, etc. EYE sensor supports iBeacon and Eddystone protocols. The device is fully compatible with the Teltonika firmware platform which provides extended functionality. Configure, scan, and update anytime anywhere with a dedicated Teltonika mobile app.



Functionalities

Beacon ID, LED, Temperature, Humidity, Accelerometer, Magnet detection

Dimensions and weight

Dimensions	56,6 mm x 38 mm x 13 mm
Weight	18 g

Battery an power

Model	CR2450
Type	Lithium, Manganese Dioxide (Li/MnO2)
Total Capacity	600 mAh
Replaceable	No
Battery life (Tx=2 dBm; interval: 3 s)	2.5+ years
Battery life (Tx=2 dBm; interval: 10 s)	5+ years

Electronic

Microcontroller	ST Microelectronics BlueNRG-2
Quartz Crystals	32.768 kHz, 16 MHz
Bluetooth operating frequency	2.402 - 2.480 GHz
Bluetooth antenna gain (peak)	1.58dBi

Connectivity

Bluetooth	Bluetooth 4.2 compliant, Bluetooth 5.2 certified
Range	80 m
Available transmission power levels	Up to 8 dBm
Sensitivity	-88 dBm

Casing

Protection	IP67
Mounting	Two holes to screw/leash/strip, tape
Customization	Custom logo upon request*

* Special conditions

Environmental Requirements

Humidity (non-condensing)	From 0% to 100%
Operational temperature*	-20°C / +60°C (-4°F / +140°F)

* Possible to have -40°C / + 85°C (-40°F / +185°F)

Protocols compatibility

iBeacon	Yes
Eddystone	Yes
Teltonika	Yes

Certificates

CE RED (EU)	Yes
FCC (USA)	Yes
UKCA (UK)	Yes
RoHS	Yes
E-mark	Yes
EAC	TBD
ANATEL	TBD
EN12830	TBD

Accuracy

Humidity: $\pm 1.8\%$ (30% to 70%), $\pm 2\%$ (0% to 30% and 70% to 100%)

Temperature: $\pm 0.2^{\circ}\text{C}$ (0°C to 60°C), $\pm 0.4^{\circ}\text{C}$ (-20°C to 0°C)

Measuring range

Relative humidity measuring range 0 - 100 %

Temperature measuring range -20 to $+60^{\circ}\text{C}$

*Possible to have -40°C / $+85^{\circ}\text{C}$ (-40°F / $+185^{\circ}\text{F}$)