



Push Button Sensor 868MHz/915MHz Connectivity Solution for IoT



PB868LRH - PBUS915LRH

General Description

PB868LRH and PBUS915LRH are home-designed push button sensors available for indoor applications.

The radio transmission is based on the new disruptive LoRa™ long range technology at 868MHz and 915MHz.

Three different operational modes are available in order to transmit to the server the information when the button is pushed or the number of how many times the button has been pushed also in a programmable time period.

The sensor is equipped with an LED in order to inform that a certain threshold of activations has been reached.

Low battery consumption.



Technical Features

- LoRa™ long range 868MHz and 915MHz radio module
- LoRAWAN v1.0.2 class A compliant
- Programmable Alive signal
- Temperature range $-10^{\circ}\text{C} < .. < +55^{\circ}\text{C}$
- Buzzer for low battery indication
- Three operational programmable modes based on opening and/or timing thresholds:
 - ✓ Signal transmitted when the button is pushed
 - ✓ Signal transmitted once a programmable threshold of activations is reached
 - ✓ Signal transmitted once a programmable threshold of activations is reached or when the programmable timing threshold is reached
- Activation and timing thresholds are set by remote
- If MODE2 is set, the sensor blinks for 100ms every 15s when the activations threshols is reached
- Total detection counter resettable from remote
- lithium-thionyl 2700mA
- Easy Installation

Frequency	868MHz – 915MHz
RF power	14dBm EIRP
Modulation	LoRa™
Network Protocol	LoRaWAN v1.0.2
RX sensitivity	-138dBm
Battery	3.6V lithium-thionyl chloride (Li-SOCl ₂)
Temperature range	$-10^{\circ} < T < +55^{\circ}\text{C}$
Antenna	PCB printed
Power supply	Min 2,1V / Max 3,6V Typ.3,0V
Consumption standb	Typ. 12uA
Dimension	70 x 65 x 55 mm
Reference standards	EN 301 489-3 EN 300 220-1 EN 60950