



# Magnetic Contact Sensor 868MHz/915MHz

## Connectivity Solution for IoT



# CM868LR - CMUS915LR

## General Description

*CM868LR and CMUS915LR are magnetic contact sensors available to detect opening or closure of doors and windows.*

*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 of openings and closings based on the desired behavior.*

*Low battery consumption.*





## Technical Features

- Double reed contact
- Double balanced auxiliary input
- Low power consumption
- Buzzer for low battery indication
- Tamper
- LoRa™ long range 868MHz and 915MHz radio module
- LoRAWAN v1.0.2 class A compliant
- Programmable Alive signal
- Cover activated tamper
- Three operational programmable modes based on opening and/or timing thresholds:
  - ✓ Signal transmitted at every reed switch opening
  - ✓ Signal transmitted once a programmed reed switch opening threshold is reached
  - ✓ Signal transmitted once a programmed reed switch opening number threshold or timing threshold is reached
- Total detection counter resettable from remote
- Easy Installation
- 1pz AA 3.6V lithium-thionyl 2700mA
- Alive messages

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-SOCI 2 )
Temperature range	-10° < T < +55°C
Antenna	PCB printed
Power supply	Min 2,1V / Max 3,6V Typ.3,0V
Consumption standb	Typ. 9uA
Dimension	98 x 38 x25 mm
Reference standards	EN 301 489-3 EN 300 220-1 EN 60950