



Wireless Infrared Sensor 868MHz / 915MHz

Connectivity Solution for IoT



IR868LR - IRUS915LR

General Description

IR868LR and IRUS915LR are passive pyroelectric effect sensors for indoor applications with a range of up to 16mt.

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

These sensors detect the body heat in order to activate an alarm in case of intrusion.

IR868LR and IRUS915LR are the perfect solution to monitor apartments, offices, shops and buildings.



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Technical Features

- Dual element pyroelectric detector
- 37 beams on 3 horizontal planes, opening 100 °
- Adjustable sensitivity detection level
- Low power consumption
- Buzzer for low battery indication
- Tamper
- LoRa™ long range 868MHz and 915MHz radio module
- LoRAWAN v1.0 class A compliant
- Up to 16m coverage
- Adjustable sensitivity detection level
- Adjustable inhibition time from 5s to 600s
- Three beams
- Programmable Alive signal
- Cover activated tamper
- Three operational programmable modes:
 - Signal transmitted at every detection
 - Signal transmitted once a programmed detection threshold is reached
 - Signal transmitted once a programmed detection number threshold or timing threshold is reached
- Total detection counter resettable from remote
- Easy Installation
- Mounting bracket available (optional)

Frequency	868MHz – 915MHz
RF power	14dBm EIRP
Modulation	LoRa™
Network Protocol	LoRaWAN v1.0
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. 12uA
Alarm inhibit time	5s < t < 600s programmable 240s default
Dimension	120 x 60 x 45 mm
Reference standards	EN 301 489-3 EN 300 220-1 EN 60950



ASCOELGAP S.r.l.
Via degli Artigiani n° 7,
26025 PANDINO (CR)
www.ascoelgap.com
info@ascoelgap.com

