

MOTION

Optimize occupant comfort and energy performance in a building.



Functions: **presence, luminosity, alert button, dry contact input**



MEASURE

- Monitor:
 - the occupancy rate of a room
 - the brightness rate
- Count the number of events on the alert button or the dry contact input



ALERT

AND/OR Trigger an alarm if:

- high or low luminosity threshold(s) exceeded
- presence / non-presence detection
- press on alert button
- number of events reached on the dry contact input



Additional features:

- **Autonomy optimization:** historization
- **Mode of data transmission:** periodic and/or on events
- **Error or Default management:** hardware error, configuration inconsistency and low battery alert



Control a presence in a room



Manage spaces according to their occupancy rate



Monitor the presence rate and match it to light requirements

TECHNICAL SPECIFICATIONS



LoRaWAN ARF8276AA | Sigfox ARF8276CA

Mechanical specifications

Weight	102g (battery included)
Dimensions	111 x 61 x 50 mm
Enclosure	IP20, Bayblend® FR3010 (PC/ABS) plastic, white
Mounting	Wall or Laid

Operating conditions

Temperature	-20°C / +60°C
Humidity	0 to 85% RH (non-condensing)

Device Power Supply

Battery Type	1 connectorized battery pack
Expected Battery Life	For 1 frame every 2 hours (12 frames per day) : - Sigfox: 2.8 years (scan every 30 minutes) - LoRaWAN SF12: 5 years (scan every 10 minutes) - LoRaWAN SF7: 7.3 years (scan every 10 minutes)

Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
Configuration and Firmware update over-the-air	KARE+ compatible
Security	PIN/PUK code protection

Radio/Wireless

Supported regions	LoRaWAN EU863-870 / Sigfox RC1
Wireless Security	AES-128 data encryption (LoRaWAN only)
Class	LoRaWAN: Class A Sigfox: Class 0
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	14 dBm
Sensitivity	-137dBm LoRaWAN @SF12 / -123 dBm Sigfox

Regulations and certifications

Standard	Directive 2014/53/UE (RED)
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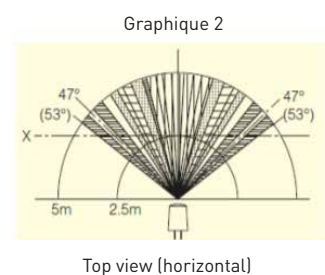
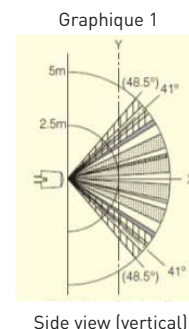
SENSOR Presence

Sensor technology	Passive infrared sensor (PIR)
Max. distance detection	5 meters
Vertical opening angle	82°, see figure 1
Horizontal opening angle	94°, see figure 2
Minimum inhibition time after end of detection	10 seconds

SENSOR Humidity

Range	0 to 100%
Resolution	1%

The brightness measurement is a subjective measure representative of human perception given as 100%.
 100% representing full daylight and 0% complete darkness.





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