KARE+

MOTION

adeunis
IOT PRODUCTS & SOLUTIONS

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

Additionnal features:

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

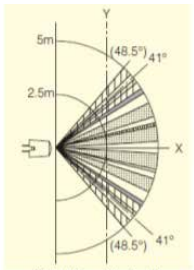
LoRaWAN ARF8276AA | Sigfox ARF8276CA

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 up-date 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)

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%

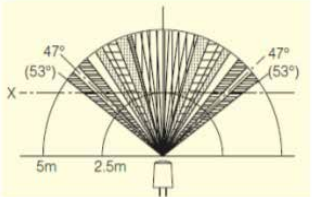
The brightness measurement is a subjective measure representative of human perception given as 100%.
100% representing full daylight and 0% complete darkness.

Graphique 1



Side view (vertical)

Graphique 2



Top view (horizontal)