

# Contact sensor

## IP68

### Monitor openings / closures



**ALERT**

- Alert in the event of :
  - intrusion
  - opening or closing
- Prevent beyond a certain number of openings / closings



**MEASURE**

Count the time spent in the open or closed state.

Ex: refrigerator door

#### Additional features:



- **Data transmission:**
  - on detection of a change of state (opening or closing)
  - or by default every 12 hours (twice a day)
- **Error/fault management:** product error warning, configuration error, low battery
- **Data time stamping**
- **Network quality test at start-up**



Know the time spent in an open state for a refrigerator.



Detect the opening of a smoke extraction hatch.



Detect an intrusion (technical room, server room, hatches, windows...).

# TECHNICAL SPECIFICATIONS



## LoRaWAN ARF8170BCA-B01

### DRY CONTACTS

#### Mechanical specifications

Weight	87g (battery included)
Dimensions	132 x 62 x 34 mm
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Mounting	DIN Rail, Tube, Wall, Collar

#### Operating conditions

Temperature	-25°C / +70°C
Humidity	0 to 85% RH (non-condensing)

#### Device Power Supply

Battery Type	1 replaceable battery or external power supply
Expected Battery Life	With standard configuration: >10 years

#### Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
Configuration and firmware update from the air	KARE+ compatible
Security	PIN/PUK Code protection

#### Radio/Wireless

Supported regions	LoRaWAN EU863-870
Wireless Security	AES-128 data encryption
Class	Class A
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	14 dBm (25 mW)
Sensitivity	-136 dBm EU868 @SF12

#### Regulations and certifications

Standard	Directive 2014/53/UE (RED)
----------	----------------------------

### PROXIMITY SENSOR

Detection	Magnetic detection
Cable Length	≈ 1.2 meter
Dimension	14 x 38 x 8.7 mm
Casing	IP67
Max distance between the 2 magnets for detection	15 mm
Operating temperature	-10°C to +85°C

