

# Contact sensor

## 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** (LoRaWAN)
- **Network quality test at start-up** (LoRaWAN)



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 ARF8170BA-B01 | Sigfox ARF8171BA-B01

### DRY CONTACTS

#### Mechanical specifications

Weight	90g (battery included)
Dimensions	105 x 50 x 27mm
Enclosure	IP67, 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
Expected Battery Life	With the default configuration: - Sigfox: 6 years - LoRaWAN: > 10 years

#### Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
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 (25 mW)
Sensitivity	-136 dBm LoRaWAN EU868 @SF12 -124 dBm Sigfox RC1

#### Regulations and certifications

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

