DRY CONTACTS

adeunis
IOT PRODUCTS & SOLUTIONS

Report 0-1 states, control relays or equipment, measure machine operating time.

4 configurable inputs/outputs

ACT
Control equipment in response to a change in state.
Activate or restart equipment remotely at any time.

ALERT
Alert on events:
- report faults and level alerts,
- detect presence, action,
- control access, detect intrusion,
- alert if an event exceeds a certain duration.

MONITOR
- Count the number of state changes.
- Evaluate the time spent in a given state.

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Additional features:
- **Four configurable** digital inputs/outputs:
  - **Control an output** based on the change in state of an input
  - **Remote** and in near-real time control of an output – **LoRaWAN Class C**
  - **Track the time** spent in a given state
- **Data transmission modes:** periodic and/or event-triggered
- **Local and remote** product configuration

Detect the opening of a door in a restricted area.

Count the time a fridge has been left open.

Automatically restart a machine following the triggering of an event.

TECHNICAL SPECIFICATIONS

DRY CONTACTS

Current versions and associated part number

LoRaWAN	US902-928	ARF8170BRA
	AU915-928	ARF8170IRA
	AS923	ARF8170JRA

Sigfox	RC2	ARF8170DRA
	RC4	ARF8170KRA

General specifications

Weight	128g (battery included)
Dimensions	132 x 62 x 34 mm
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (housing), EMERGE™ PC8430-15 transparent resin (base)
Mounting	DIN rail, tube, wall, collar
Battery Type	Battery power: replaceable battery (4000 mAh) External power supply (not supplied): input range 4.5 - 6.5V - Max current 200mA USB power supply: supply voltage 5V nominal - Max current 200mA
Recommended operating conditions with battery supply	-25°C / +70°C ; 0 à 85% RH (non-condensing)

Device configuration

Local device configuration	IoT Configurator (Windows/Android)
Remote device configuration	Downlink via the network or via the KARE platform
Security	PIN/PUK code protection

INPUTS

Number	up to 4 by configuration
Voltage	0 - 24 V
Equivalent input resistance	500 kΩ
Input frequency	10 Hz

OUTPUTS

Number	up to 4 by configuration
Voltage	0 - 24 V
Recommended dissipation max current	150 mA
Output frequency	10 Hz

BUNDLE	PART NUMBER
Double level sensor	ARF8170xRA-B02
Contact sensor	ARF8170xRA-B01
Water leak cable	ARF8170xRA-B03
Water leak spot	ARF8170xRA-B04

TECHNICAL SPECIFICATIONS

LoRaWAN DRY CONTACTS

Zone	US902-928 Mhz	AS923-1 Mhz	AU915-928 Mhz
Part number	ARF8170BRA	ARF8170JRA	ARF8170IRA
Autonomy			
Expected Battery Life 1 transmission/4 hours, 4 inputs in default «open» state and 100 events per day	SF7: > 15 years SF12: > 15 years		
Radio/Wireless features			
LoRaWAN spec.	1.0.4		
Wireless Security	AES-128 data encryption		
Class	Class A and Class C (if external power supply connected)		
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup		
Joining phase	Can be customised (number of attempts, time between attempts), remote join re-launch		
Network quality test	Performed automatically when the product starts up (via LEDs)		-
RF transmit power	+ 20 dBm	+ 14 dBm	+ 20 dBm
Regulations and certifications			
Standard	US: FCC- Title 47 CFR Part 15￼Canada: RSS-247 Issue 2	AS/NZS 4268	AS/NZS 4268

Sigfox DRY CONTACTS

Zone	RC2	RC4
Part number	ARF8170DRA	ARF8170KRA
Autonomy		
Expected Battery Life 1 transmission/4 hours, 4 inputs in default «open» state and 100 events per day	>15 years	>15 years
Radio/Wireless features		
Class	Class 0	
RF transmit power	+ 20 dBm	+ 14 dBm
Regulations and certifications		
Standard	US: FCC- Title 47 CFR Part 15￼Canada: RSS-247 Issue 2	AS/NZS 4268