

# LR210/260 LoRa Relay Controller

LR210 and LR260 are DIN-mounted LoRa relay controllers allowing independent control of two fully isolated relay channels. By implementing LoRaWAN device class C the LR210 and LR260 are able to perform relay switching with low latency since the cloud-to-device link is always enabled.

The LR210 is supplied directly on AC mains while LR260 has a DC 8-30V supply. Both versions have LED status indication for power, LoRa network and relay status. User buttons allows manual relay control, LoRa activation and reset control.



## TECHNICAL DATA

### RELAY SPECIFICATION

- |                          |   |                       |               |
|--------------------------|---|-----------------------|---------------|
| • Contact material:      | Ag-Alloy (Cd free)  | • Dimensions:         | 90 mm x 36 mm |
| • Rated carry current:   | 10A   | • Contact resistance: | 100mΩ max     |
| • Max switching voltage: | 277 VAC, 30 VDC   | • Isolation voltage:  | 4000 VAC      |
| • Max switching current: | 10A AC, 5A DC   |                       |               |
| • Durability:            | 100 000 operations 5A 30 VDC<br>25 000 operations 10A 250 VAC |                       |               |

### LORAWAN

- Frequency: 868MHz (EU868 region) version 1.0.2
- Output power: 14dBm
- Antenna: Built-In or external with SMA connector
- Activation mode: OTAA (Over The Air Activation), ABP on request
- Security: Hardware crypto co-processor for secure key storage. Encrypted FW.

### SPECIFICATION LR210 POWER SUPPLY

- Input voltage range: 85 to 250 VAC
- Input frequency: 47 to 63 Hz
- Input power: 1W (max)
- Isolation voltage: 4000 VAC

### SPECIFICATION LR260 POWER SUPPLY

- Input voltage range: 8 to 30 VDC
- Input power: 1W (max)
- Over-voltage and reverse polarity protected

### ENVIRONMENTAL

- |                          |                                  |                        |              |
|--------------------------|----------------------------------|------------------------|--------------|
| • Operating Temperature: | -30C to +55C                     | • Storage Temperature: | -40C to +85C |
| • Operating humidity:    | Max 85% RH (non-condensing)      | • Altitude:            | 0 to 2000m   |
| • Usage class:           | Indoor usage, pollution degree 2 |                        |              |

### EU DECLARATION OF CONFORMITY

LR210/260 conforms to the following harmonized standards:

- EMC 2014/30/EU (SS-EN 55032:2015, SS-EN IEC 61000-6 -1 -2 -3 -4)
- LVD 2014/35/EU (IEC 62368-1:2018)
- RED 2014/53/EU (EN 300 220-1, EN 300 220-2, EN 301 489-1, EN 301 489-3)
- RoHS 2002/95/EG