(M) 16A Dry Switch

by MClimate

LoRaWAN

16A Dry Switch LoRaWAN
SKU: MC-LW-16ADS-01
Input: 100-240VAC 50/60Hz 50mA
24-30VDC 50mA
Relay output: 16(8)A AC / 10A DC
ASDW1234567ASDW

⚠ CE ☒

L N I O

M Climate

LoRaWAN EU868 Class C
868-870MHz, 14dBm (25mW)
Manufacturer: MClimate Jsc
A. Malinov 31 Blvd,
Sofia 1729, Bulgaria

3.2 cm

3.6 cm   1.8 cm

Description

The MClimate 16A Dry Switch LoRaWAN is a minia-ture device that features a dry 16A relay. The device is small enough to fit behind most wall switches and outlets. The device has 4 terminals L, N, I, O, connecting and disconnecting I from O. The device operates in LoRaWAN Class C, features FUOTA (Firm-ware Upgrades Over The Air) and has overheating protection.

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Product features

- Firmware Upgrade Over The Air
- Internal temperature sensor and overheating protection

Applications

- Smart Buildings
- Residential buildings
- Commercial buildings
- Hotels
- Others

Device specifications

Mechanical specifications

WEIGHT EXCL. BATTERIES	24.5gr
DIMENSIONS	32mm x 36mm x 18mm
ENCLOSURE	ABS V0
IP RATING	IP25

Ambient working conditions

TEMPERATURE	-10 - +60°C
HUMIDITY	0-80% RH (non-condensing)

Electrical specifications

POWER SUPPLY	100-240VAC / 24-30VDC
CONSUMPTION	50mA

Output circuit ratings

MAX SWITCHING VOLTAGE	240VAC / 30VDC
MAX. SWITCHING CURRENT	16A AC (8A AC for @ cos φ=0,4) / 10A DC
MAX. SWITCHING POWER	3840W (2000W for cosf φ=0,4) AC / 300W DC
POWER MEASUREMENT	Yes
VOLTAGE PROTECTION/CUTOFF	Yes
CURRENT PROTECTION/CUTOFF	Yes
MAX POWER PROTECTION/CUTOFF	Yes

Safety functions

Overheating protection

Supported load types

• **Resistive** (incandescent bulbs, heating devices)
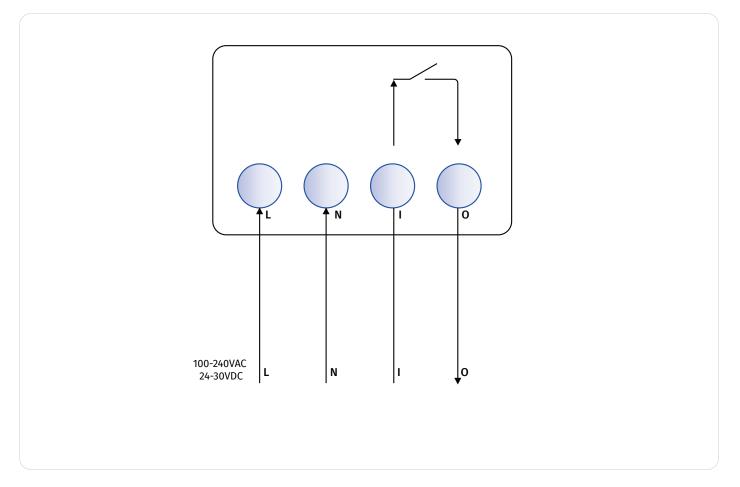• **Inductive** (LED light drivers, transformers, fans, refrigerators, air-conditioners)

Radio/Wireless

WIRELESS TECHNOLOGY	LoRaWAN® 1.0.3
WIRELESS SECURITY	LoRaWAN® End-to-End encryption (AES-CTR)
LORAWAN DEVICE TYPE	Class C End-device
SUPPORTED LORAWAN FEATURES	OTAA, ADR, Adaptive Channels setup
SUPPORTED LORAWAN REGIONS	EU863 – 870; Other LoRaWAN regional settings available upon request
LINK BUDGET	130dB
RF TRANSMIT POWER	14dB

Wiring

Electrical diagram

100-240VAC
24-30VDC

L   N   I   O