### **QL DL SW412**

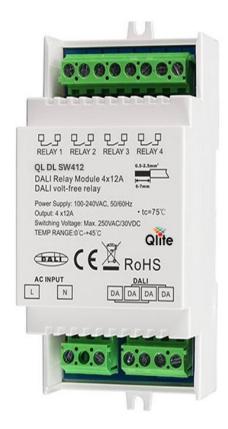
### **Relay Module**

The QL DLSW412 is a DALI-2 four-channel relay module equipped with zero-crossing detection, designed to switch and control loads that do not inherently have a DALI input. Powered directly by the DALI bus, this relay module allows seamless integration of standard electrical devices (such as contactors, non-DALI drivers, and resistive/capacitive loads) into a DALI lighting control system.

Each of the four relays can be controlled independently and the device can automatically receive and assign **four unique DALI addresses** from the DALI master controller.

By enabling DALI control over non-DALI loads, the relay module significantly expands the flexibility of DALI systems, making it possible to integrate traditional electrical equipment alongside advanced DALI luminaires and sensors.

- > Zero-crossing detection for reliable switching and reduced electrical stress
- ➤ DIN rail mounting for easy installation on standard 35 mm DIN rails
- > Operates on 100–240 VAC power supply
- ➤ 4 independent channels to control up to four loads or devices
- ▶ 4 DALI addresses automatically assigned by the DALI master controller
- > Supports control of standard contactors via DALI
- > 5-year warranty with IP20-rated enclosure for indoor installations
- Compatible with universal DALI systems and controllers



- ➤ Integrates non-DALI loads such as traditional lighting or other devices into DALI circuits
- Loads can be switched ON/OFF via DALI commands

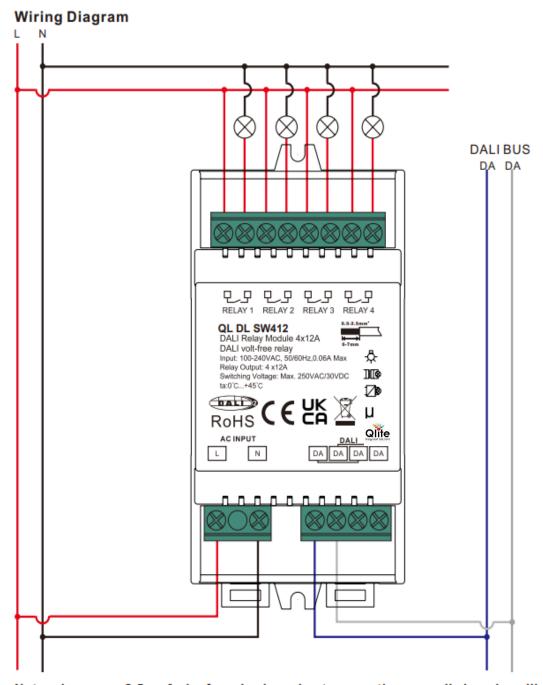
# QL DL SW412 Relay Module

### **Specifications**

Switching Voltage 1Max. 250VAC
Power Input 100-240VAC
Output current
Resistive Load Max. 4*12A
Inductive Load Max. 4*12A
LED & Other Capacitive Loads  Max. 4*12A
Types of Contact 4 normally closed
Dimension (mm) 110*53*65
Frequency 50/60Hz
DALI Consumption <3mA
Number of DALI Addresses 4
Waterproof Grade IP20
Relay Output 4*12A



## **Relay Module**



Note: please use 2.5mm² wire for relay in and out connections, small size wire will cause over heating.

Fig 1. Wiring Diagram

