

QL-SW420

4 CHANNEL SWITCHING RELAY MODULE

The QL-SW420 is a 4 channel switching relay module designed for small to medium sized lighting automation requirements. The DIN rail mountable module is totally self contained with its own integral PSU and can be configured as a part of a central system or as a standalone system. In a standalone mode, the module operates in the QL NET mode. When used as a part of a central system with QL NE100 controller, the module operates in DMX-512 mode.

This module can be fitted along with protection devices in the distribution board or into a cabinet with any other modules. The metal construction has been designed and built for safety, reliability & serviceability with standard DIN rail mountable fixing arrangement. The channel numbers for each output can be configured.

After power loss, on restoration the system will restore each channel to the "last selected state" prior to the power loss.



- Operates in Stand-alone mode and centralized mode with QL NE100
- Each channel delay time configurable to reduce surge currents during simultaneous switching ON of circuits
- Accepts standard DMX-512 signal
- DIN rail mountable
- Up to 99 zones configurable in QL NET mode
- Up to 8 Programmable partition zones
- Up to 8 programmable scenes in QL NET mode
- Manual override switch per channel
- Individual channel settable switch on level

Specifications

Power Supply

100-270V AC, 50/60 Hz

Power Requirement

15mA @ 240V AC

QL NET Power Supply Capacity

400mA

Protocol

QL NET, DMX-512

Output Rating

Max per channel : 20A

Connectors

QL NET/DMX-512 : Non-detachable 4 pin 3.5mm connector, 2 nos. 2.54mm 4 pin bar connectors

Power in : Non-detachable 3 pin 3.5mm connector

Relay in/out : Non-detachable 8 pin 3.5mm connector (2 per channel)

Programming Port : 2.54mm 8 pin bar connector

Configuration Buttons

▲, ▼, ◀, ▶, FCN and DMX

Override Switches

4 nos. SPDT mini slide switches

LED indicators

4 Green LEDs mimicking the output of the 4 relays, 1 Red LED indicating power and 2 Green LEDs indicating communication signal status

Display

LCD

Environment

Ambient Temperature : 0°C to 50°C

Relative Humidity : less than 80%

Safety Regulatory Compliance

CE

Dimensions

144mm (W) x 88mm (H) x 57mm (D)

Weight

500g

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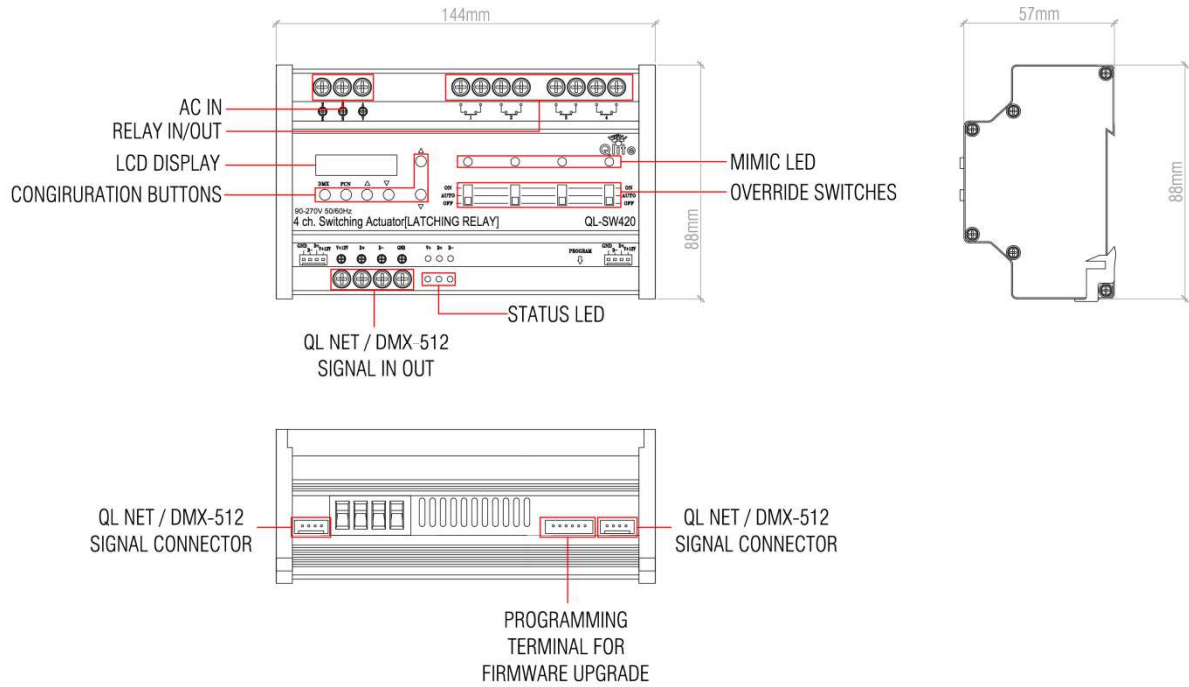


Fig 1. Module Details

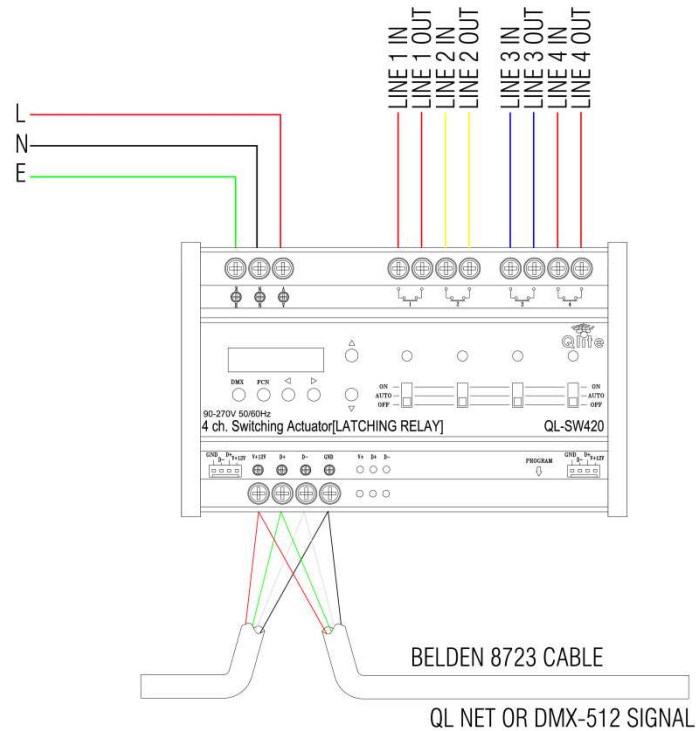


Fig 2. Module Connections

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Typical Applications

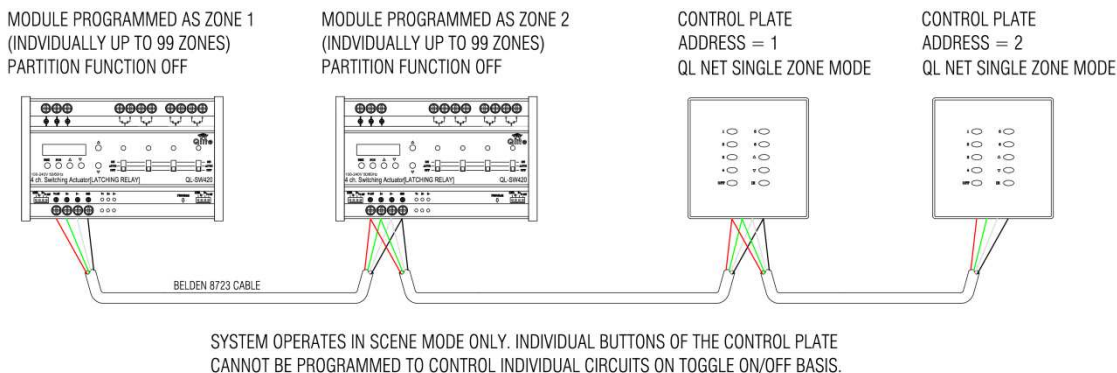


Fig 3. Application Example : QL NET mode

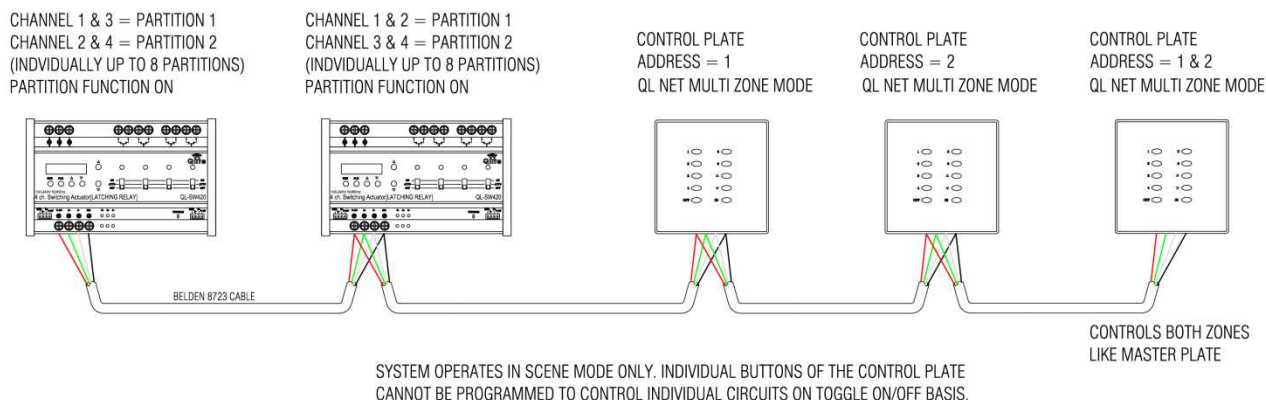


Fig 4. Application Example : QL NET mode

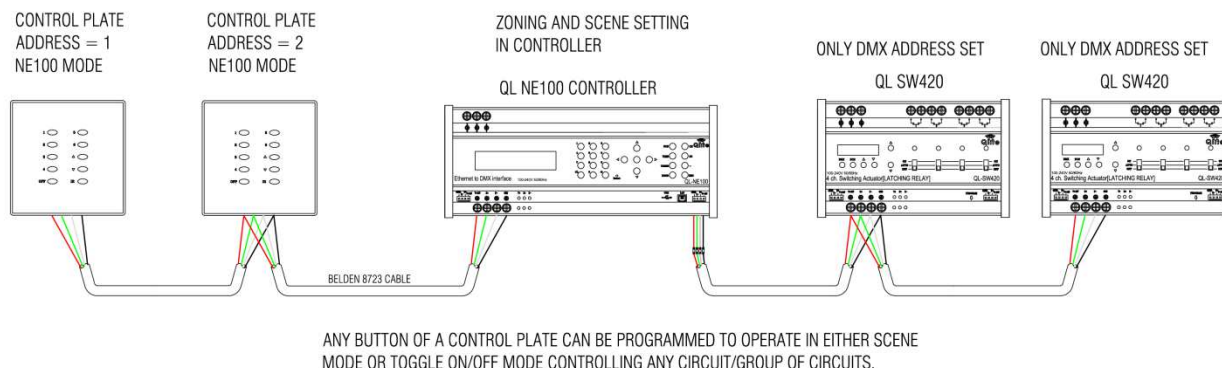


Fig 5. Application Example : NE100 mode