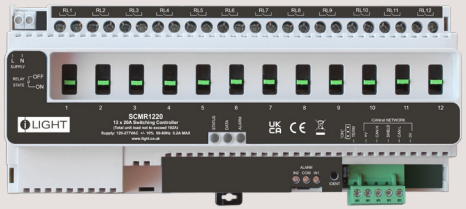
Installation Guide

SCMR1220

12 x 20A Feed Through Relay Controller



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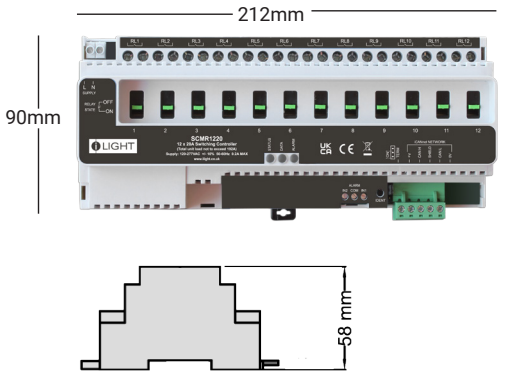
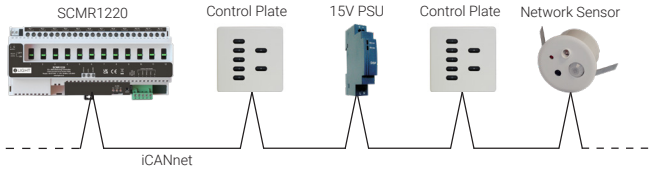
FM 727924

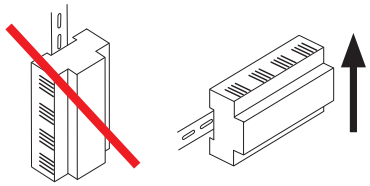
Dimensions



Typical Schematic



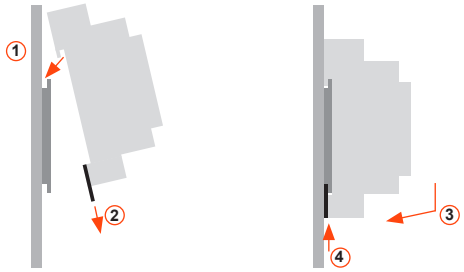
Mounting & Installation



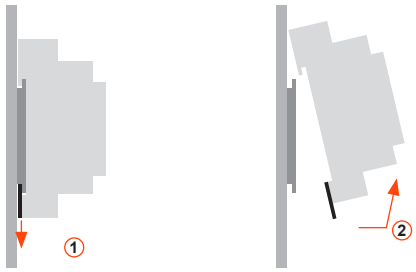
SCMR1220 must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

Ensure selected enclosure provides adequate cooling ventilation.

Fixing to DIN rail
1. Fix top clips over DIN rail.
2. Pull down bottom clip using screwdriver.
3. Close module towards DIN rail.
4. Push up bottom clip to fix securely to DIN rail.



Removing from DIN rail
1. Pull down bottom clip with screwdriver.
2. Lift module away from DIN rail.



Electrical Data

Supply: 100 - 277V AC, 50/60 Hz
Maximum load: 192 Amps @ 50°c
Maximum switching channel current: 20 Amp
Load Protection: Provided by installer
Control Supply: N/A
(Device does not supply current to iCANnet™)
Terminal Sizes (Capacity per terminal):
- **Supply/Load screw terminals:** 2x1mm² or 1x 2.5mm²
- **Input screw terminals:** 0.2mm² to 1mm²
- **iCANnet™ input/output screw terminals:** 5 x 1mm²

Terminal Torque Settings:
- **Supply, input, iCANnet terminals:** 0.5Nm
- **Load (Relay) terminals:** 2Nm

Input Cable Length: 30m MAX
Installation: Installation must be carried out by a suitably qualified electrician.

Load Data

Relay outputs: Volt free contacts, capable of switching inductive, capacitive and resistive loads
12 x 20A relays, 100 - 277V AC, 50/60 Hz, volt free
Note: Any phase on any output
Inrush current:
- Inrush current I_{peak} (150 µs) < 600 A
- Inrush current I_{peak} (230 µs) < 480 A
- Inrush current I_{peak} (600 µs) < 300 A

Control Data

Control: Via iLight network connection
Recommended Network Cable: iCANnet™ Network Cable
Programming: Via Device Editor software or latest iLight commissioning tool

Mechanical Data

Weight: 0.8kg
Operating temperature: +2°C to +50°C
Note: All enclosures must be adequately ventilated
Max storage temperature: +60°C
Humidity: +5 to 95% non-condensing
Environmental protection: IP20

SCMR1220

12 x 20A Relay Controller

Device LEDs and Buttons

Status LED
Green LED flashes – device OK

Data LED
Red LED flashes when messages sent on network.

Alarm LED
Red LED solid on for local initiated alarm
Red LED flashes for network initiated alarm

Device Identification
Press and release switch.
Sending a message to identify the device on the network (red Data LED flashes).

iCAN Network Connections

Function	iCANnet Cable Colours
0V	Black
CAN L	Blue
Shield	Silver
CAN H	White
+VDC	Red

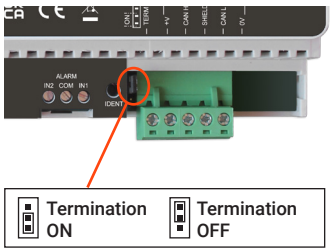
Maximum segment distance: 500m (1640 ft)
Devices per segment: 100 (without bridge or repeater)
Consult iLight for information on alternative cable types.

IMPORTANT NOTE: Connecting a mains potential cable to the iCAN Network terminals is likley to damage the unit and other devices connected, and invalidate warranty.

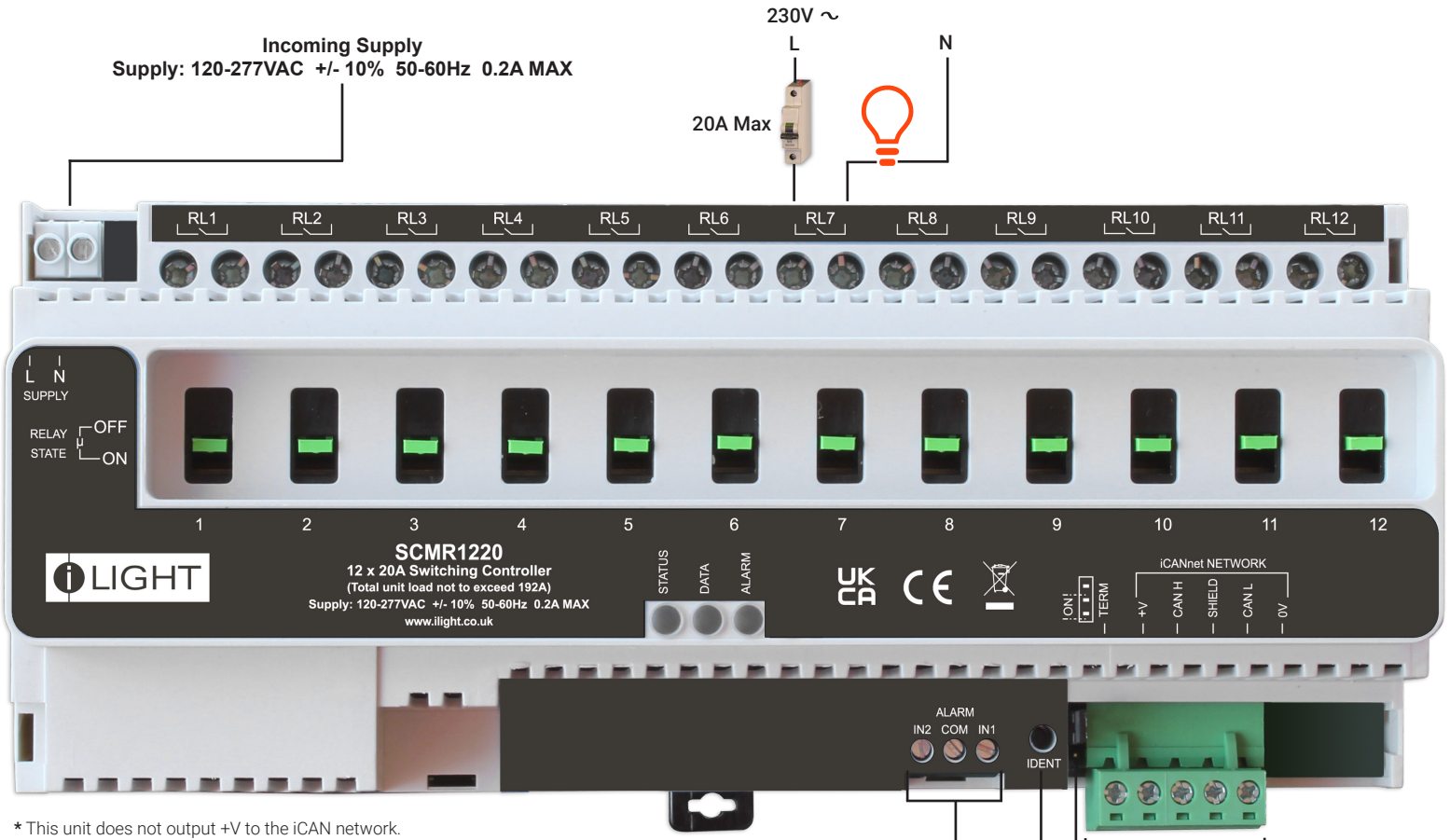
iCANnet Network termination

SCMR1220 is supplied with termination disabled as standard. If it is connected as an end device on the iCAN network, the jumper will need to be moved to enable termination.

To enable termination, move the jumper outwards from the inner two pins to the outer two pins.



Typical Connection Diagram



* This unit does not output +V to the iCAN network.