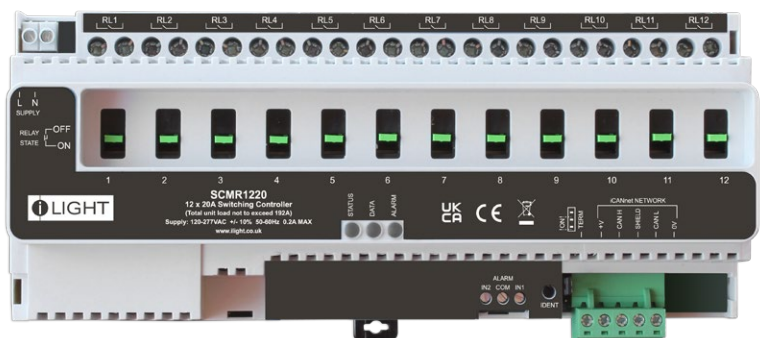# SCMR1220

12 Channel 20 Amp Feed Through Relay Controller

Key Features

- 12 x 20 Amp feed through relays
- Any phase on any output
- Mounts to standard Top Hat (TS35) DINrail
- Switches resistive, inductive and capacitive lighting loads
- Intelligent 'Built in' propagation delay for switching sequence 1-12
- Manual override of any channel
- Integral processor
- iLight network terminal connections
- 2 x Auxiliary Inputs
- Configuration stored in Non Volatile EEPROM
- Firmware storage in reflashable FLASH memory over iCAN network
- Configurable start up mode
- CE & UKCA compliant to all relevant standards
- Designed and manufactured to ISO9001 standard

Overview

The SCMR1220 is a key building block when specifying high power switching control.

This 12 channel, feed through-latching relay controller enables lighting loads up to 20A to be switched. The twelve TV8 rated relays support resistive, capacitive, and inductive lighting loads, as well as non-lighting loads of any voltage up to 230VAC.

The economical design of SCMR1220 provides a high density of channels in a small footprint, minimising the required space and cost of installation.

To ensure seamless control of higher power loads the SCMR1220 benefits from intelligent propagation delay, imperceivably staggering the switching of the outputs in sequence.

SCMR1220 also benefits from the same robust design principles as all iLight products and boasts truly distributed intelligence, inherent resilience, and independent operation.

Each channel relay is accessible from the front of the unit - test and override control is available to the installer, correct system installation can be verified prior to commissioning. Manual override of each channel can be triggered as required.

Furthermore, iLight source controllers support virtually any type of lighting load, the SCMR1220 in combination can be employed seamlessly providing flexible and scalable solutions for almost any lighting control application.

The core capabilities of an iLight solution deliver much more than lighting, empowering the user to take charge of their intelligent building systems including lighting, shading, heating, cooling, ventilation and more.

Mechanical Data

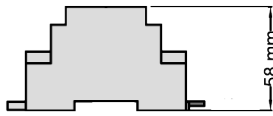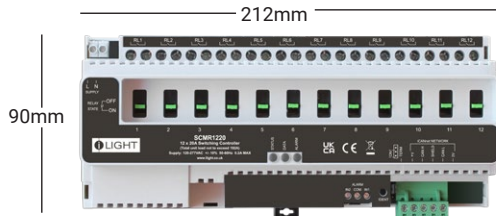**Weight:** 0.8kg

Operating temperature: +2ºC to +50ºC

Note: All enclosures must be adequately ventilated
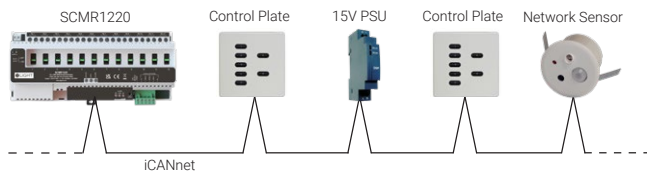
Max storage temperature: +60ºC

Humidity: +5 to 95% non-condensing

Environmental protection: IP20

Dimensions

Typical Schematic

Electrical Data

Supply: 100 - 277V AC, 50/60 Hz

Maximum load: 192 Amps @ 50ºc

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: $2x1mm^2$ or $1x\ 2.5mm^2$
Input screw terminals: $0.2mm^2$ to $1mm^2$
iCANnet™ input/output screw terminals: $5\ x\ 1mm^2$

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

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