



# SCI1220

## 12 Channel x 20 Amp Inductive Lighting Source Controller

### Key Features

- 12 x 20 Amp rated source controller
- Dims resistive, inductive and low voltage electronic transformer loads (that are compatible with leading edge dimmers)
- Quiet operation
- 128 scene memory
- Multiple choice of circuit protection
- Security door for MCBs
- Optional RCBO per channel
- Fail to full safety feature
- iCAN network inputs
- DMX input option
- Audio Visual Port (RS485)
- Temperature Monitoring
- Panic/Fire alarm input
- Emergency Lighting Terminals
- Configuration stored in Non Volatile EEPROM
- Firmware storage in reflashable FLASH memory over iCAN network
- CE compliant to all relevant standards
- Designed and manufactured to ISO9001:2008 standards

### Overview

This 12 channel unit provides comprehensive features and performance at a truly competitive price. It is fully rated for 80 Amps three phase of continuous inductive lighting load. Whether used for tungsten, low voltage or cold cathode light sources, this unit will provide reliable service over many years. With a 128 scene integral memory, this device offers multiple control options to meet the most demanding specifications.

With iLight's iCAN network connectivity, it has the capability of being linked with a virtually limitless number of other iLight products to build up to any size of system. This product is designed for projects where there are multiple channels of Architectural lighting. It is the perfect choice for hotel ballrooms, atria and large themed restaurants and museums. With an optional DMX512 control input, it is a highly adaptable product.



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## Mechanical

Weight: 22kg  
(Double Pole version: 23.5kg RCBO & RCBOX version: 24kg)

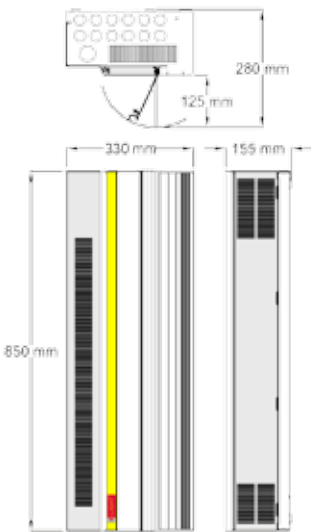
Mains Cable Access:  
12 x 25.5mm and 1 x PG29 knockouts  
Control Cable Access: 1 x 25.5mm knockout

Climate Range:  
Temperature: +2°C to +40°C  
Humidity: +5 to 95% non condensing  
Temperature Monitor: This unit is complete with thermal monitoring. Should it over-heat the unit will automatically switch off

Control Inputs:  
Two sets of terminals for the iCANnet™ network  
Suitable for Belden 1502  
One RJ12 socket for programming the iCANnet™ network  
One set of terminals for the Audio Visual Port, RS485  
One set of terminals for the panic/fire alarm input

Optional: DMX512 input card (add X to the end of the part number)

## Dimensions



RCBO & RCBOX version: 850 (h) x 374 (w) x 155mm (d)

## Electrical

Maximum Load: 80 Amp three phase @ 40°C

Maximum Channel Current: 20 Amps

Supply: 415/230 volts +/- 10% 50/60 Hz  
(optionally, 220/127 volt 60 Hz)

Protection: 12 x 20 amp MCBs Type C, 6KA rated, Input isolator.

Options:

SCI1210S - Single pole with isolator  
SCI1210N - Neutral disconnect with isolator  
SCI1210D - Double pole, no isolator  
SCI1210RCBO - RCBO Breakers with isolator  
SCI1210RCBOX - 12 x SP MCBs with isolator (For field fit of RCBOs)

Load Types:

Incandescent 230 volt lamp  
Inductive Wire wound (allow for 10% transformer losses)  
Leading edge electronic transformers  
Cold cathode (Check the iLight help desk for details)  
Minimum Load: 20 watts inductive load per channel  
Dimmed Outputs: 12 x 40 Amp Triacs

Switched Outputs:

The Dimmed outputs may be configured as switches, for non-dimmed loads. They require a minimum load of 30mA for them to latch. Before connecting discharge lamps, consult iLight.

Terminal Sizes:

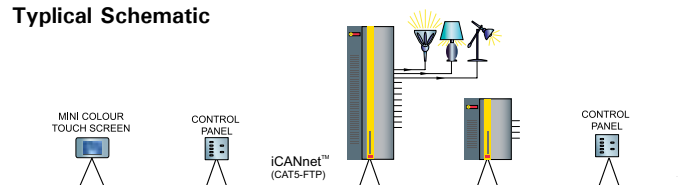
Incoming supply, max' cable size: 10mm<sup>2</sup> live, 16mm<sup>2</sup> neutral  
Loads, max' cable size: 1 x 4mm<sup>2</sup> or 2 x 2.5mm<sup>2</sup> per circuit  
iCANnet™ network cable size: 5 x 1mm<sup>2</sup>  
Audio Visual Port: RS485 2 x 1mm<sup>2</sup>  
Auxiliary over-ride input: 2 x 1mm<sup>2</sup>

Memory:

FLASH memory to be able to upgrade firmware  
EEPROM for 128 scene memory  
Fade Times: 0.1 seconds to 60 minutes  
Mains Stabilisation: 50:1

Other inductive source controllers: SCI0405, SCI0410, SCI0805, SCI1205, SCI1210 and the SCMI0402

## Typical Schematic



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