

SCI0405

4 Channel x 5 Amp Inductive Lighting Source Controller

Key Features

- 4 x 5 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)
- Panic/Fire alarm input
- 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 ISO9001:2015 standards

Overview

This 4 circuit economy source controller is fully rated for 4 x 5 Amps of continuous inductive or resistive lighting loads. 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.

In addition to the iLight iCAN network connectivity, it also has an audio visual port, and panic/fire alarm input. It is typically used on its own in areas that need manageable and controlled light such as themed restaurants, visitor centres, art galleries, and churches, or as part of a comprehensive network in large building complexes.



Mechanical Data

Weight: 4kg (4.5kg for RCBO & RCBOX versions)

Mains Cable Access:

4 x 22.5mm/PG16 knockouts, 4 x 25.5mm/M25 knockout & 1 x 28.5mm/PG21 knockout

Control Cable Access:

1 x 22.5mm/PG16 knockout & 1 x 25.5mm/M25 knockout

Climate Range

Temperature: +2°C to +40°C

Humidity: +5 to 95% non condensing

Control Inputs

Two sets of terminals for the iCANnet™ network

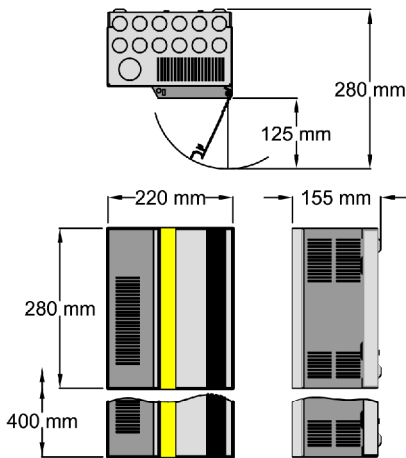
Suitable for Belden 1502

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

Dimensions



SCI0405 D version - 400x220x155mm
RCBO & RCBOX version - 340x255x155mm

Electrical Data

Maximum Load: 20 Amp single phase @ 40°C

Maximum Channel Current: 5 Amps

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

Protection: 4 x 6 amp MCBs Type C, 6KA rated, Input isolator.

Options:

SCI0405S - Single pole, no isolator

SCI0405N - Neutral disconnect, no isolator

SCI0405D - Double pole, no isolator

SCI0405RCBO - RCBO Breakers with isolator

SCI0405RCBOX - 4 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: 4 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: 10mm²

Loads, max' cable size: 1 x 4mm² or 2 x 2.5mm² per circuit

iCANnet™ network cable size: 5 x 1mm²

Audio Visual Port: RS485 2 x 1mm²

Auxiliary over-ride input: 2 x 1mm²

Memory:

FLASH memory to be able to upgrade firmware

EEPROM for 128 scene memory

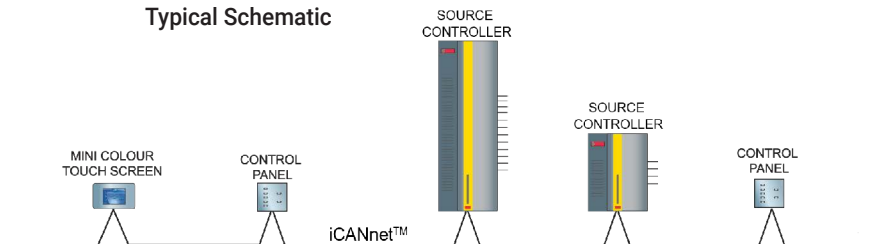
Fade Times: 0.1 seconds to 60 minutes

Mains Stabilisation: 50:1

Other inductive source controllers: SCI0410, SCI0420, SCI0805, SCI1205, SCI1210, SCI1220 and the SCMI0402.

Notes: Where control of Electronic transformers for trailing edge dimming is required, refer to the iLight SCA and SCLED Source Controllers.

Typical Schematic



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