

SCH0410

4 Channel x 10 Amp Digital Dimming & Switching Controller

Key Features

- 40 Amp total box load on 4 circuits
- Broadcast DALI, DSI or 1-10V control
- 128 Scene Memory
- Multiple choice of circuit protection
- Security door for MCBs
- Optional RCBO per channel
- Fail to full safety feature
- iCAN network inputs
- 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 compact digital dimming and switching controller is a 4 channel device that provides 4 switched power circuits with 4 channels of scene set dimming for Broadcast DALI, DSI or 1-10V control. Its 10 Amp power relays make it suitable for independent non-dimmable loads as well.

In addition to the iLight iCANnet™ network connectivity, it also has an audio visual port. It is suitable for controlling other 0-10 volt devices, such as a motorised Iris in a projector and 0-10 and DSI / DALI controlled transformers and cold cathode. It is typically used on its own in small areas that need manageable and controlled light, such as meeting rooms, cinema and entrance lobbies, or as part of a comprehensive network in large building complexes.



Mechanical Data

Weight: 4kg

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:

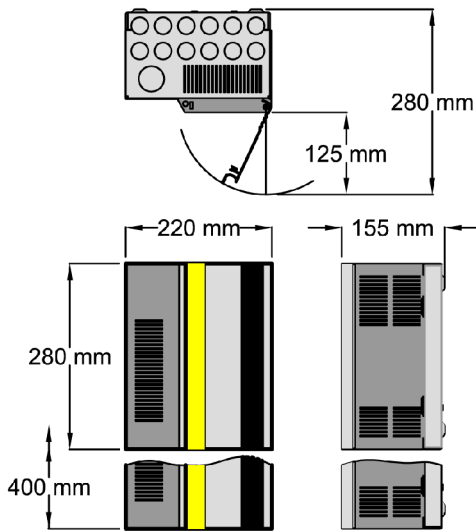
Temperature: +2°C to +40°C

Humidity: +5 to 95% non condensing

Control Inputs:

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

Dimensions



SCH0410 D versions - 400 x 220 x 155mm

SCH0410 RCBO & RCBOX versions - 340 x 255 x 155mm

Electrical Data

Maximum Load: 40 Amp single phase @ 40°C

Maximum Channel Current: 10 Amp

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

Protection: 10 amp MCBs Type C, 6KA rated

Options:

SCH0410S - Single pole, no isolator

SCH0410N - Neutral disconnect, no isolator

SCH0410D - Double Pole, no isolator

SCH0410RCBO - RCBO Breakers with isolator

SCH0410RCBOX - As SCH0410S but with isolator (For field fit of RCBOs)

Load Types:

1-10 volts HF Fluorescent, 100 per channel. Tridonic DSI HF Fluorescent Ballast, 32 per channel. DALI HF Fluorescent Ballast (Broadcast mode only), 32 per channel, max 128 per unit. 0-10 volt Iris control (20K Ohm input).

1-10 volt Multi-Load transformers 1000 (Control only)

Dimmed Outputs:

4 x 1-10 volts at 0.1 Amp sink current per channel

4 x Tridonic DSI outputs (uses electronic power switching in ballasts)

4 x DALI outputs (uses electronic power switching in ballasts)

The output types above are selectable within iCANedit for each circuit

Switched Outputs: 4 x 230v 10 Amp (inductive or resistive)

Terminal Sizes:

Incoming supply, max cable size: 10mm²

Ballast output, max cable size: 4 pairs x 2.5mm²

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

Panic/fire alarm input: 2 x 1mm²

Memory:

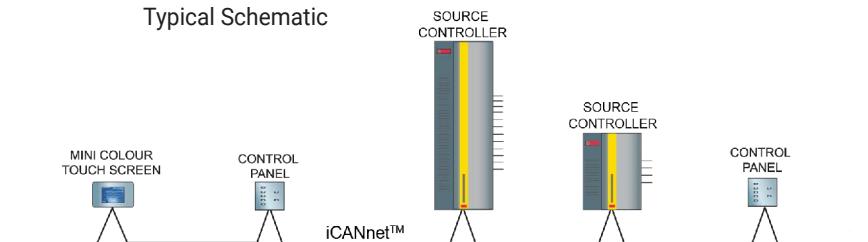
FLASH memory to be able to upgrade firmware

EEPROM for 128 scene memory

Fade Times: 0.1 seconds to 60 minutes

Other HF Ballast controllers: SCH1210, SCH1220, SCMH0410 and SCMH1200

Typical Schematic



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