

general specifications

Description

The Chilli 2410i is a compact wall mounting dimmer designed to be easy to use, reliable and affordable. The Chilli 2410i is exceptionally easy to install. The unit is located by two screws and secured by a further two. Removing the front cover is simple and allows quick access for installation and maintenance.

The user interface comprises a numeric keypad and backlit LCD display to make for ease of use in setting up and using the dimmer.

supplied accessories

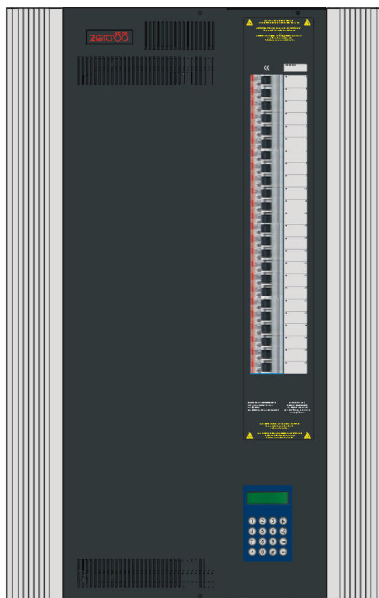
- Installation / Operating instructions

ordering information

- Chilli 2410i : 01-103-00

Specifications

- Number of channels: 24
- Channel Capacity: 0.1Amin /10A max
- Total dimmer capacity: 240A (80A per phase)
- Dimmer duty cycle: 100%
- Dimmer Curves: Normal, Linear and Switched - Selectable per channel
- Memories: One
- Supply voltage: 200-255VAC
- Operates on single phase and three-phase supply
- Supply frequency: 40 to 70Hz auto-sensing and auto-tracking
- Rise Time: 80µS
- Control input: DMX 512-1990 via terminal block. Start address set via front panel controls
- DMX termination may be switched in or out internally
- Channel outlets: Outlet connections via 6mm² terminal strip
- Case has the following knockouts:
 - Top: 5 x Ø50mm
 - Bottom: 3 x Ø50mm
- Channel protection: 10A thermal magnetic circuit breaker per channel, breaking capacity 6000A
- Cooling: Convection
- Dimensions: 1000mm (H), 632mm (W), 155mm (D)
- Weight: 35Kg (77lb)



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engineering specifications

electronics

The dimmer unit shall provide 24 channels of dimming control, each channel rated at a maximum of 10A. Each dimmer channel shall be designed to run at 100% duty cycle.

The dimmer shall have a waveform rise time of not less than 80µs for each circuit, and shall be capable of dimming resistive and inductive loads and dimmable electronic transformers. Each dimmer channel shall be protected by a 10 amp thermal magnetic circuit breaker. Circuit breakers shall have a 6000A breaking capacity. DMX input shall be via a terminal block. It shall be possible to switch DMX termination in or out internally. DMX start address shall be set from the front panel user interface. DMX present and DMX error information shall be provided on the LCD display. The dimmer shall provide three dimming laws: Normal, Linear and Switch. These laws shall be selectable per channel via the user interface.

It shall be possible to dictate the actions of the dimmer in the event of DMX control signal loss via the front panel user interface. Options shall be given to hold the last known lighting state, fade to the user defined on board memory over 3 seconds or fade to black in 3 seconds.

Using the front panel user interface it shall be possible to test each channel of the dimmer and to adjust each channels test level. The dimmer channel preheats shall be adjustable, with all channels being controlled simultaneously. It shall be possible to store one memory in the dimmer by grabbing the current DMX levels of all channels. Dimmer outputs shall be via internal terminals, with separate live, neutral and earth connections for each channel.

The dimmer shall be convection cooled, requiring no forced air within its normal operating range. The user interface shall comprise a backlit 16-button keypad with a 2 x 16 character backlit LCD display.

electrical

The dimmer shall operate on single or three phase mains supplies.

Power input shall be via 4 x 35mm² terminals for neutral and live and a 10mm stud for Earth.

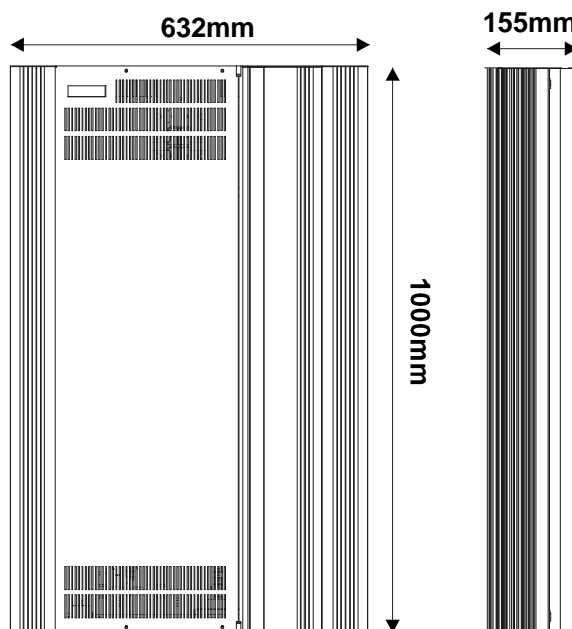
Mechanical

The dimmer shall be designed for wall-mounted use. The dimmer shall be 632 mm wide x 155 mm deep x 1000 mm in height. The dimmer shall be designed in two main parts, a chassis and a cover. The chassis shall be constructed of 1.2mm gauge steel and shall contain the dimming and control electronics. The chassis shall be fixed to the wall by 4 fixings, the uppermost being of a keyhole type to enable simplified installation. The front panel shall be designed for easy removal to facilitate installation and access to the electronics for maintenance. The dimmer cover shall be constructed using 1.2mm gauge steel. The cover shall be fixed to the chassis by 4 screws. A hinged, lockable panel shall be provided to cover the circuit breakers and user interface.

All metal surfaces shall be properly treated and finished with specialist paints or powder coat. The dimmer shall have knockouts for cable entry on the top and bottom panels. The size of knockouts shall be: Top = 5 x Ø50mm and Bottom = 3 x Ø50mm.

MCB's and user interface shall be located on the front panel of the dimmer.

The normal operating environment for the dimmer shall be +5°C to +40°C.



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