

CHILLI PRO 2416 I

NEUTRAL DISCONNECT BREAKERS

GENERAL SPECIFICATIONS

DESCRIPTION

The Chilli Pro 2416i is a compact wall mounting dimmer designed to offer a professional range of features while offering Zero 88's standard ease of use, reliability and affordability. The Chilli Pro 2416i 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 including the ability to network dimmers together.

The Chilli Pro 2416i is shipped in Entertainment mode. In this mode, the networking features are disabled to enable the dimmer to be used for traditional dimming applications. Activation of the Network mode provides access to networking features, allowing dimmers to be linked together or zoned for architectural applications, whilst retaining the ability to use DMX.

SUPPLIED ACCESSORIES

- Installation / Operating instructions

ORDERING INFORMATION

- Chilli Pro 2416i: 01-109-00



SPECIFICATIONS

- **Standard DMX Specifications**
- Number of channels: 24
- DMX Address: Addressable per channel
- Channel Capacity: 0.1Amin /16A max
- Total dimmer capacity: 384A (128A per phase)
- Dimmer duty cycle: 100%
- Dimmer Curves: Normal, Linear, Switched and Square
- Memories: 12
- Sequences: 3
- Supply voltage: 200-255VAC
- Operates on single phase and three-phase star 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: 16A Curve C, thermal magnetic neutral disconnect breaker per channel, breaking capacity 6000A.
- Cooling: Convection
- Dimensions: 1000mm(H), 632mm(W), 155mm(D)
- Weight: 50Kg

Additional Networking Specifications

- 10 Areas / Zones
- 1 Master Area / Zone
- 12 Memories per Area / Zone
- 3 Assignable Sequences per dimmer
- Alarm Input
- User selectable DMX interface relationship
 - DMX on/off
 - DMX precedence
 - HTP



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ENGINEERING SPECIFICATIONS

ELECTRONICS

The dimmer unit shall provide 24 channels of dimming control, each channel rated at a maximum of 16A. Each dimmer channel shall be designed to run at 100% duty cycle.

The dimmer shall have a waveform rise time of not less than $80\mu\text{S}$ for each circuit, and shall be capable of dimming resistive and inductive loads and dimmable electronic transformers, compatible with leading edge dimming.

Each dimmer channel shall be protected by a 10 amp thermal magnetic neutral disconnect 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. It shall be possible to set an individual DMX address per channel. DMX present and DMX error information shall be provided on the LCD display. The dimmer shall provide four dimming laws: normal, linear, switched and square. 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 one of the user defined on board memories 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 on an individual basis.

The dimmer shall operate in two modes - Entertainment or Networking. In Entertainment mode it shall be possible to store up to 12 memories in the dimmer by grabbing the current DMX levels of all channels. It shall be possible to create up to three 12 step chase sequences comprising any of the 12 onboard memories. It shall be possible to play back any of the 12 memories or 3 sequences via the user interface. It shall be possible to set a topset level per channel. In Network Mode it shall be possible to create up to 10 Areas or Zones and create a Master Area for overall control of these Areas. Each Area shall be capable of storing 12 memories. It shall be possible to assign 3 sequences per dimmer. The dimmer shall feature an alarm input for use with emergency systems. It shall be possible to select the DMX interface relationship per Area (DMX on/off, DMX takes precedence or HTP) 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 35mm^2 terminals for neutral and live and a 10mm stud for Earth.

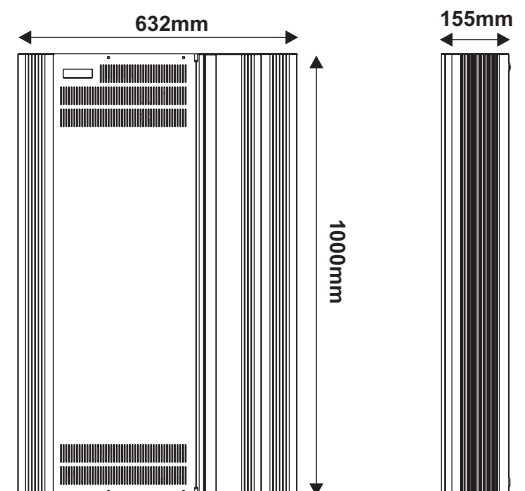
MECHANICAL

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, RCD 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 = $5 \times \text{Ø}50\text{mm}$. Bottom = $3 \times \text{Ø}50\text{mm}$.

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

The normal operating environment for the dimmer shall be $+5^\circ\text{C}$ to $+40^\circ\text{C}$.



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