SPECIFICATION

SPICE 12-10

10 Amps per channel - MCB protection

GENERAL SPECIFICATIONS

DESCRIPTION

The Spice 1210 is a tough rack mounting dimmer designed to offer a professional range of features while offering Zero 88's standard ease of use, reliability and affordability.

The Spice dimmer provides superb mains supply tolerance and protection, helping it to withstand common mains faults and continually reporting it's condition. Connection faults, voltage and frequency drift, and over-voltage conditions are all taken in the Spice's stride

The Spice dimmer shares it's heritage with Zero 88's superb Chilli dimmer range, providing compatibility with the extensive range of ChilliNet units. As part of a ChilliNet system, the Spice will work as an architectural dimmer, and will provide remote monitoring information via the ChilliNet Master Controller. The Spice user interface is also shared with the Chilli dimmer offering a simple, reliable method of setting up and operating the dimmer in any conditions.

SUPPLIED ACCESSORIES

- Installation/Operating Instructions.

ORDERING INFORMATION

- Spice 1210 Harting : 01-300-41
- Spice 1210 Socapex : 01-300-42

SPECIFICATIONS

- Number of Channels: 12
- Channel Capacity: 0.1Amin/10Amax
- Total Dimmer Capacity: 120 A (40A per phase, limited to 32A per phase by mains connector)
- Dimmer Duty Cycle: 100%
- Dimmer Curves: Normal, Linear, Switch or Square
- Memories: 12
- Chases: 3
- Programable Channel Attributes:
- Topset per channel
- DMX address per channel or as a block (12 channels)
- Preheat per channel (0-20%)
- Dimmer lock out function
- Supply Voltage: 190-255V
- Operates on single phase or 3 Phase Star
- Voltage and Frequency displays
- Supply Frequency: 45 to 70Hz auto-sensing and auto-tracking.
- Phase Control Rise Time: 80 uS
- Control Input:
  - DMX in and through via 5pin XLR connectors
  - DMX termination may be selected
  - RDM hardware ready
- Channel Outlets: Can be supplied as either 2 x Socapex or 2 x Harting Connectors.
- Power Connection: Supplied with 1.2m of 5 core 3phase cable terminating in a CEE17 32A connector.
- Channel Protection: 10A thermal magnetic circuit breaker per channel, breaking capacity 6000A
- Dimmer Protection: Hardware protected 440V Phase to Neutral, software over-voltage protection of outputs
- Resettable transformer fuses
- In three phase use, continued operation during loss of one phase
- Cooling: Dual fan cooled. Fan under user control with temperature monitoring
- Dimensions: 482mm (W) x 132mm (H) x 420mm (D)
- Weight: 14.5kg

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ENGINEERING SPECIFICATIONS

ELECTRONICS

The dimmer unit shall provide 12 channels of dimming control, each channel rated at a maximum of 10A. The Dimmer channels shall be designed to run at 100% duty cycle. The dimmer shall have a waveform rise time of not less than 80uS for each circuit, and shall be capable of dimming resistive and inductive loads and leading edge dimmable electronic transformers.

Each dimmer channel shall be protected by a 10amp neutral disconnect thermal magnetic circuit breaker. Circuit breakers shall have a 6000A breaking capacity.
DMX input shall be via a Male 5 Pin XLR connector. DMX through shall be via a 5 Pin Female XLR connector. It shall be possible to select termination of DMX on the dimmer. DMX start address, whether per channel or per block shall be set from the front panel of the user interface. DMX present and DMX error information shall be provided on the LCD display. The dimmer shall provide four dimming laws: normal, square, switched and s-law. These laws shall be selectable 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 using that memorys' own fade time or fade to black in 3 seconds.

Using the front panel user interface it shall be possible to carry out several functions. 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. It shall be possible to set a top voltage output on a per channel basis. 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 edit the individual channel levels within each memory. 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.

The dimmer shall provide a ChilliNet interface. It shall be possible for remote operation of the dimmer via the ChilliNet interface. It shall be possible to network the dimmers to allow control all the dimmers on the network via a master controller. It shall be possible to output memories and chases from remote ChilliNet Panels connected to the network. The dimmer shall raise all output levels to 80% on receipt of an ALARM message over the network.

The unit shall be available as standard with either two socapex or two Harting connectors.

The dimmer shall provide dual fan cooling. The dimmer shall provide temperature monitoring with a facility to over-ride the fan operation.

The user interface shall comprise a backlit 16-button display with 2 x 16 character backlit LCD display.

The dimmer shall provide for internal firmware upgrades via an external serial port.

ELECTRICAL

The dimmer shall operate on single or three phase mains supplies. 3-phase supply is star configuration as standard. The unit shall be supplied with a 5 wire, 1.2m three phase cable terminating in a CEE17 32A plug. The unit shall operate over a range of 190-255volts. It shall track frequency in the range 45 to 70Hz.

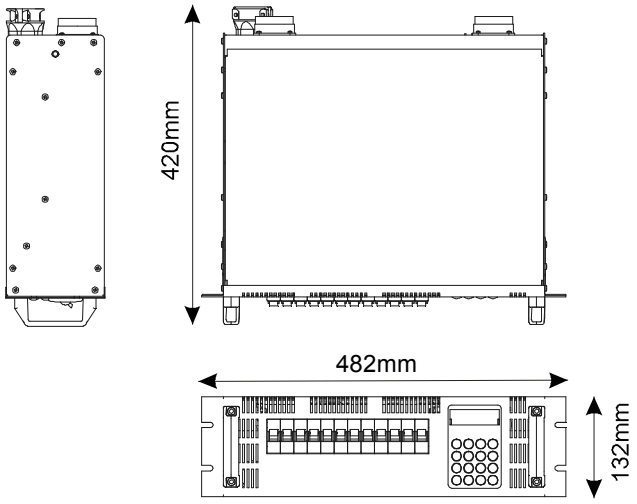
The dimmer shall be capable of operating at a phase voltage up to 440V. In the event of a phase over voltage the dimmer shall put the phase channel outputs to zero.

MECHANICAL

The dimmer shall be designed for 19“ rack mounting. It shall be a maximum of 3U high and 420mm deep. The dimmer shall be designed in two main parts, a chassis and a cover. The chassis shall be constructed from a combination of 1.2mm and 2.0mm gauge steel and shall contain the dimming and control electronics. Both covers shall be fixed to the chassis by 4 screws, one at each corner.

All metal surfaces shall be properly treated and finished with specialist paints or powder coat.

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



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