EC21

The New Century Dimmer

Features

- Racks are available for 24, 36 and 48 modules

- Plug in Modular Dimmer System

- Advanced technology processor features a built in Ethernet input port. An optional plug in Ethernet switch is available to link multiple racks.

- European DIN Standard breakers

- Optional RCD per circuit

- Ample wire chamber for ease of installation and to accommodate oversize load wiring

- Fault beacon for easy notification of faults

- Web Browser configuration

- Built in Architectural Control

- 128 Back up Presets

- DMX input with patch

- Dual Processor option with full tracking back up available

- Emergency Rack Panic feature (hardwired for security of local or remote control)

- Dual 3kW and 5kW TrueSine™ Sinewave Dimmer Modules

- Dual 3kW and 5kW Thyristor Dimmer Modules with 200µs or 400µs filter chokes

- Maximum 144 x 2.5kW dimmers in a cabinet using high density quad modules

- Contactor and Fluorescent modules available to control a wide range of loads

- Sinewave and Thyristor modules may be mixed in the same rack

- Optional Amp traps for full 100,000 AIC fault current rating

- CE marked and TUV/VDE approved

Single and Dual Electronics are available for control of up to 144 dimmers

Strand
LIGHTING

Introduction

The EC21 Dimming system represents premium performance and high value for all levels of users. Designed to interface directly with Strand Lighting's ShowNet Ethernet or ACN control system, the EC21 system includes an Ethernet port and an optional integral 4 port switch and a wide range of inputs. Two DMX inputs are standard with the second input available for use as an RS485 port to support our Outlook architectural system and 128 System Wide

Control back-up presets. All Outlook and System Wide Control presets have individual fade times.

All Thyristor dimmers feature high-performance chokes and two levels of rise time filtering. The latest technology TrueSine™ Sinewave dimmers are available in dual 3kW and 5kW dimmer modules. Sinewave dimmers provide silent loads with virtually no harmonic content. The EC21 system may be fully populated with dual Sinewave

dimmers or mixed with Thyristor dimmers in the same rack offering best value.

EC21 Dimming systems feature a universal 24, 36 and 48-module rack design that provides support for 90-260 volt operation and is CE marked and has VDE/TUV approval, meeting a wide range of regulatory requirements within a single rack.

Technical Specifications

Supply Voltage   90-260 volts 3 phase up to 800 amps.

Standards Compliance
EMC emissions to EN50081-1, EN55014; EMC immunity to EN50082-1, IEC1000-2-2; Safety: EN60950, EN60439 Part 1 (also part 12 BS5486); design & build: ISO9000, UL1950
The rack shall be CE marked and TUV/VDE approved.

Mechanical Data

Construction   Formed steel assembly

Weight
48-module rack: 223kg (296kg packed)
36-module rack: 202kg (198kg packed)
24-module rack: 181kg (198kg packed)

Dimensions (HxWxD)
48-module rack: 2032 x 623 x 660mm
36-module rack: 1727 x 623 x 660mm
24-module rack: 1448 x 623 x 660mm

Connections   Ethernet CAT 5- RJ 45

DMX Inputs   2 DMX Inputs standard 2nd input available for use as RS485 to support the Strand Outlook Architectural System or Strand SWC (128 Back up Presets)

Ordering Information

Cat No	Description
76502/230	EC21 Rack/48 Modules
76503/230	EC21 Rack/48 Modules (with Amp traps)
76542/230	EC21 Rack/36 Modules
76543/230	EC21 Rack/36 Modules (with Amp traps)
76512/230	EC21 Rack/24 Modules
76513/230	EC21 Rack/24 Modules (with Amp traps)
76520-xxxx	EC21 96-Output Rack Processor (specify single or dual processor required)
76695-0001	EC21 Integrated Ethernet Switch
76695-0003	EC21 Rack Processor for additional Architectural Power Supply Kit (i.e for more than two Outlook panels)
76533	EC21 19" Equipment Rack (48-module height, 42U)
76535	EC21 19" Equipment Rack (36-module height, 36U)
76534	EC21 19" Equipment Rack (24-module height, 30U)

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