



GENERAL INFORMATION

The ColorSource Relay combines power sequencing and data distribution in a portable plug-and-play format. The ColorSource Relay comes in wireless- and wired-DMX input. Upon receiving data from the console, its internal sequencing routine automates the process of staggering turn-on times across relays while it provides hardline DMX to connected fixtures.

APPLICATIONS

- Applications requiring distributed dimming and position flexibility:
  - Schools
  - Houses of worship
  - Small theaters
  - Event lighting
  - Automated lighting systems
  - Industrial productions
  - Rentals
  - Conference and exhibition centers
  - Multi-use venues such as schools and meeting rooms

FEATURES

- Input voltage: 90-250V; 47-63Hz
- Portable two-pole air-gap relay
- Auto sequencing: turn-on delay in each relay ensures that no two relays turn on at the same time across a system
- Data input options (choice per model):
  - Wireless- The relay receives wireless DMX for relay activation on choice of five wireless IDs selected by thumbwheel and transmits DMX output on hardline connection.
  - DMX (hardwire)- Receives hardwire DMX (input) for relay activation with RDM feedback and configuration while passing through DMX/RDM on the five-pin XLR (output) connector
- USB master: Connect USB drive for software upgrades
- Integral Safety Connection
- Three mounting options: ETC LED yoke (included), universal yoke, or for use on desktop wall-mount

ORDERING INFORMATION

ColorSource Relay

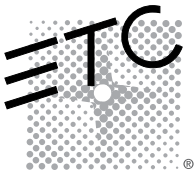
| MODEL | DESCRIPTION                         |
|-------|-------------------------------------|
| CSR-D | ColorSource Relay DMX               |
| CSR-W | ColorSource Relay Wireless Receiver |
| CSR-T | ColorSource Relay Transmitter       |

Note: CSR-D and CSR-W power cables and dmx cables sold separately. CSR-T ships with 12VDC power supply with 4ft cable

Accessories

| MODEL    | DESCRIPTION   |
|----------|---|
| CSR-PMT  | Pipe Mount bracket*                                   |
| CSR-YM   | Universal Yoke mount kit                              |
| CSR-WM   | Wall mount bracket                                    |
| CST-Feet | Set of four rubber no-skid feet for desktop operation |
| DPA-X    | PowerCON to bare end 5ft                              |
| DPA-A    | PowerCON to Edison 5ft                                |
| DPA-B    | PowerCON to Stage pin 5ft                             |
| DPA-C    | PowerCON to TwistLock 5ft                             |
| DPJ-5    | PowerCON Male to PowerCON 5ft                         |
| DPJ10    | PowerCON Male to PowerCON Female Jumper 10ft          |

Note: \*Pipe clamps sold separately



## SPECIFICATIONS

## GENERAL

- CE Compliant; FCC approved
- RoHS compliant
- DMX512A compatible
- RDM compatible (Wired version only)
- Wireless DMX broadcasts on 2.4GHz range using Spread Spectrum Frequency Hopping (SSFH)

## MECHANICAL

- Case manufactured of molded black textured plastic
- Multiple yoke-fixing hole combinations for flexible mounting to the fixture
- Convection-cooled; operates without cooling fans
- Molded safety connection point
- Power-input and -output connectors arranged at 45-degree angle to the pipe for ease of tie-off
- Wireless model includes thumbwheel for selection of six wireless IDs or custom
- Wireless model includes 2dBA gain omnidirectional antennae
- Specialized directional and high-gain antennas are sold separately

## ENVIRONMENTAL

- Operating temperatures: 0-40°C; 32-104°F;
- Humidity: 5-95%, non-condensing
- Rated for Indoor use

## ELECTRICAL

- Input power:
  - Max breaker sizing: 20A
  - Voltage ranges: 85-250V
  - Frequency range: 47-63Hz
- Consumes .25W during sleep mode (.6W for wireless)
- PowerCon compatible input and output connectors
- Relay cuts both poles for support of two pole 208V and Delta applications
- 2500V isolation between control and power components
- Wired DMX\* In and Thru on five-pin XLR
- DMX thru is not self-terminating

\*Represents 1/4 unit device load for purpose of calculating DMX daisy-chain device count (max 32 unit devices per DMX chain)

## RELAY SPECIFICATIONS

- Switching current: 16A max at 40°C ambient
- Mechanical Endurance: 1,000,000 cycles
- Quiescent load: less than .65 Watts during sleep mode
- Electrical endurance
  - Resistive 100,000 cycles @16A; 250V
  - Inductive 100,000 cycles @6A; 277V
  - Motor 40,000 cycles @1.5HP; 250VAC
  - Ballast 20,000 cycles @1500W; 347V
  - Electronic 20,000 cycles @3300W @277V (12A)

## WIRELESS DMX SPECIFICATION

- Range: 100 meters
- Max receivers per transmitter: 32
- Band: 2.4GHz Frequency Hopping Spread Spectrum
- Power: up to 72mW ETSI broadcast power
- Third-party compatibility: City Theatrical Show DMX
- Wireless ID #6 operates outside of the Wifi bands for areas of strong wifi usage
- Wireless DMX Latency can occur during fade chases.

## SPECIFICATIONS

## CONTROL FEATURES

- DMX512A In and Thru via five-pin XLR connectors
- Supports up to 32 units on one DMX line
- Choice of relay mode:
  - Automatic
  - DMX level
  - System Power Command
- RDM (Remote Device Management) allows remote configuration of the following properties of the device, you can use any RDM controller such as ETC's Concert or Eos® software to configure these options. (Wired version only)
  - **Read-only RDM items:** RDM Device Count; Type Description; Product Details list; Manufacturer; Defaults; Software Version Sensors list and values; Output Power (Instantaneous Voltage and Current w/min/max record)
  - **Editable RDM items:** Name; RDM Enable; DMX Address; Threshold; DMX Loss Time; Max Turn-On Delay; Relay Personality/Mode;
  - Wireless ID; Identify

PHYSICAL

ColorSource Relay Dimensions\*

| MODEL           | HEIGHT |     | WIDTH  |     | LENGTH |     |
|-----------------|--------|-----|--------|-----|--------|-----|
|                 | inches | mm  | inches | mm  | inches | mm  |
| CSR DMX         | 2.00   | 51  | 5.00   | 127 | 3.31   | 84  |
| CSR Wireless    | 4.32   | 110 | 5.00   | 127 | 4.39   | 111 |
| CSR Transmitter | 4.41   | 112 | 5.00   | 127 | 4.48   | 114 |

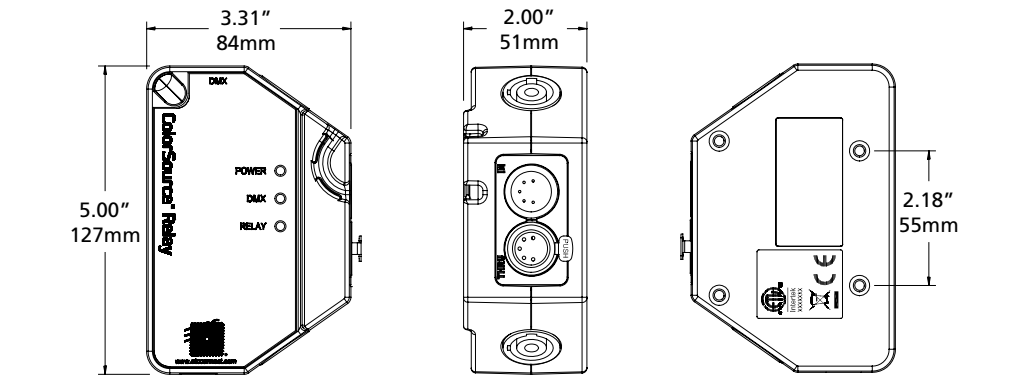
\*Weights and dimensions typical

ColorSource Relay Weights\*

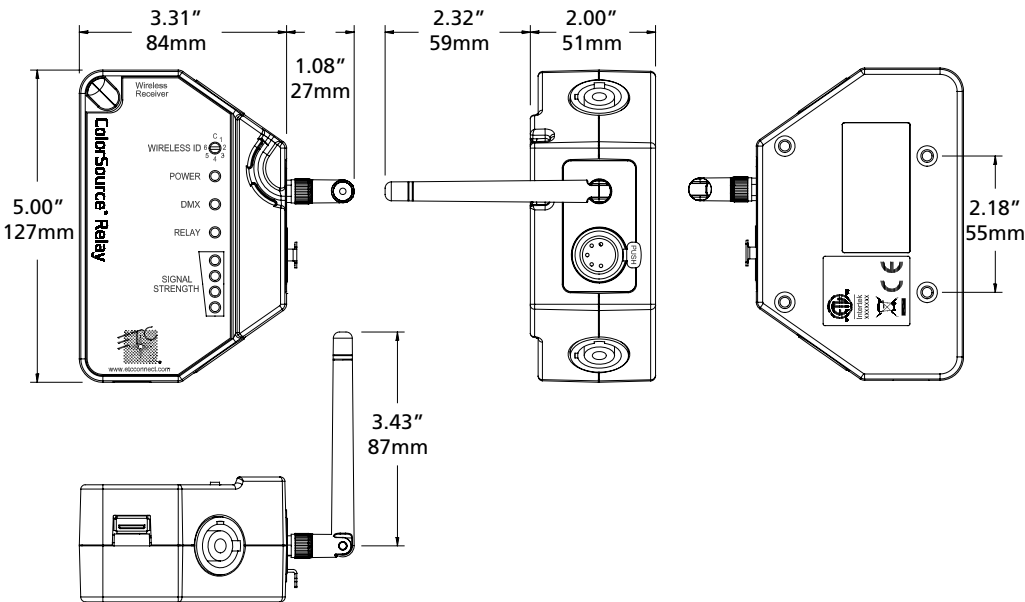
| MODEL           | WEIGHT |      | SHIPPING WEIGHT |      |
|-----------------|--------|------|-----------------|------|
|                 | lbs    | kg   | lbs             | kg   |
| CSR DMX         | 0.7    | 0.31 | 0.81            | 0.37 |
| CSR Wireless    | 0.7    | 0.31 | 0.87            | 0.37 |
| CSR Transmitter | 1.1    | 0.5  | 1.2             | 0.54 |

\*Weights and dimensions typical

COLORSOURCE RELAY WIRED DMX

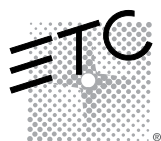
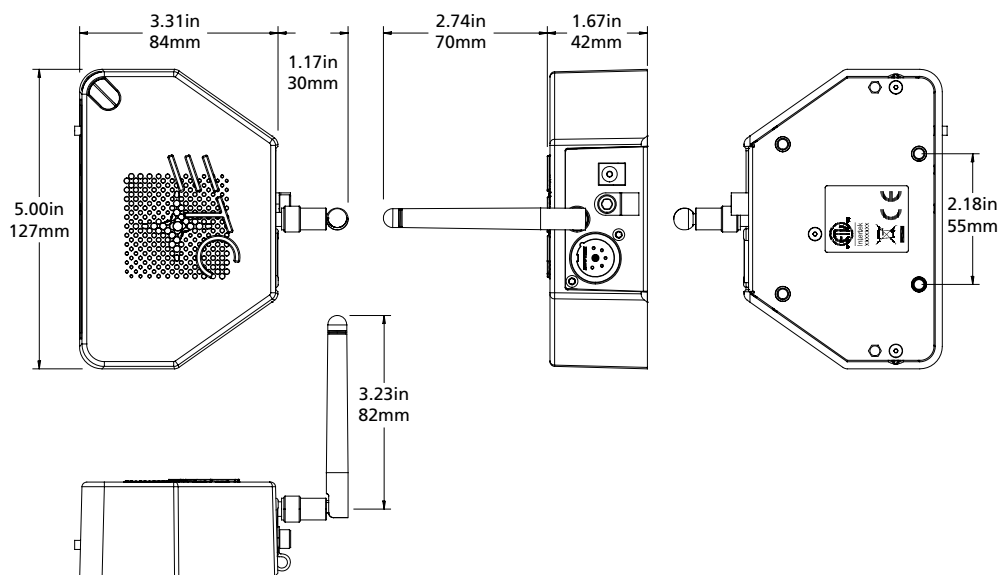


COLORSOURCE RELAY WIRELESS RECEIVER



## PHYSICAL

## COLORSOURCE RELAY TRANSMITTER



**Corporate Headquarters** • 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • Tel +1 608 831 4116 • Fax +1 608 836 1736

**London, UK** • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • Tel +44 (0)20 8896 1000 • Fax +44 (0)20 8896 2000

**Rome, IT** • Via Pieve Torina, 48, 00156 Rome, Italy • Tel +39 (06) 32 111 683 • Fax +44 (0) 20 8752 8486

**Holzkirchen, DE** • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00

**Hong Kong** • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325

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