



## 5-in-1 4-Channel LED Amplifier, Common Anode, DC 12–24V, 6A per Channel

- Four output channels rated 6A per channel for common anode LED loads
- High-speed optical coupler with 10 Mbps output rate
- Optoelectronic isolation between input and output sections
- MOSFET output stage sized for high-current PWM switching
- 5 × 2 × 1 in body at 0.3 lb for in-enclosure mounting
- One-year warranty, rated for indoor dry locations only

### OVERVIEW

The 5IN1 Series 4CH amplifier is a 4-channel LED signal amplifier for common anode LED lighting systems. It accepts DC 12–24V input and output, making it compatible with a wide range of PWM LED controller configurations used in commercial and architectural lighting installations.

Each of the four channels delivers up to 6A output current, and a high-speed optical coupler rated at 10 Mbps reproduces the master controller signal synchronously. Input and output are optoelectronically isolated, and MOSFET output stages carry the channel current. Each added amplifier extends the run, doubling the LED load the controller can drive. At 5 × 2 × 1 in and 0.3 lb, the unit fits inside control enclosures and low-profile mounting locations.

Rated for indoor dry locations and covered by a one-year warranty.

### SPECIFICATIONS

#### OPTICAL

LED Lifetime 50,000 h

#### ELECTRICAL

Operating Voltage 24 V

Maximum Current 6 A

Input Connection Type Common anode

Device Type 4-channel LED signal amplifier

#### MECHANICAL

Product Dimensions 5 × 2 × 1 in

Weight 0.3 lb

#### ENVIRONMENTAL

Environmental Rating Indoor dry locations

#### ORDERING

Warranty 1 y

### APPLICATIONS

Architectural cove and perimeter LED runs

Retail display and casework lighting

Channel letter and signage LED circuits

Lighting control enclosures and panels

Hospitality accent lighting extensions

| slug                  | value                            | source | confidence |
|-----------------------|----------------------------------|--------|------------|
| led_lifetime_h        | 50,000 h                         | db     | high       |
| operating_voltage     | 24 V                             | pdf    | high       |
| current_draw          | 6 A                              | pdf    | high       |
| input_connection_type | Common anode                     | pdf    | high       |
| device_type           | 4 - channel LED signal amplifier | pdf    | high       |
| product_dimensions    | 5 × 2 × 1 in                     | db     | high       |
| weight                | 0.3 lb                           | db     | high       |
| environmental_rating  | Indoor dry locations             | pdf    | medium     |
| warranty_years        | 1 y                              | db     | high       |

Specifications subject to change without notice.

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