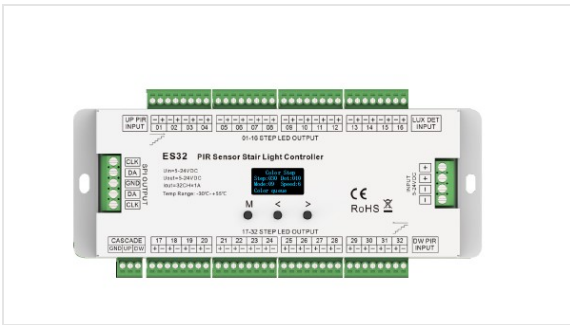




Stair Light Controller, 32 Channels,
Dual PIR Sensors, 12-24 V DC, IP20

- 32 constant-voltage output channels rated 1 A per channel
- Two SPI (TTL) outputs drive 28 addressable IC types including WS2812
- PIR detection field of 3 m at a 30 degree sensitivity angle
- OLED display with three-button setup and four work light modes
- ABS flame-retardant housing, IP20, 200 × 90 × 70 mm
- Operating temperature range of -30 to 55 degrees C

OVERVIEW

The ES32 stair light controller sequences low-voltage LED strip lighting on staircases in response to motion, using two PIR sensing heads for separate up and down direction detection. It suits residential stairwells, hallways and commercial stair cores where hands-free step illumination is required.

Thirty-two constant-voltage output channels each deliver up to 1 A, and two SPI (TTL) signal groups drive addressable pixel strip using selectable IC types including WS2811, WS2812 and TM1809. An OLED display with three buttons sets step count, brightness and speed in eight grades, delay time and daylight sensor threshold. A daylight sensor input, cascade port for pairing two controllers, channel disable setup, over-heat and short-circuit protection are built in. PIR detection covers a 3 m field at a 30 degree sensitivity angle, and operation is rated from -30 to 55 degrees C.

Certified to CE and RoHS, with a 5-year warranty.

SPECIFICATIONS

OPTICAL

Beam Angle	30°
LED Lifetime	50,000 h

MECHANICAL

Product Dimensions	200 × 90 × 70 mm
Material	ABS flame-retardant housing
Mounting	Wall or ceiling mounted PIR sensing heads
Weight	1.46 lb

ORDERING

Warranty	5 y
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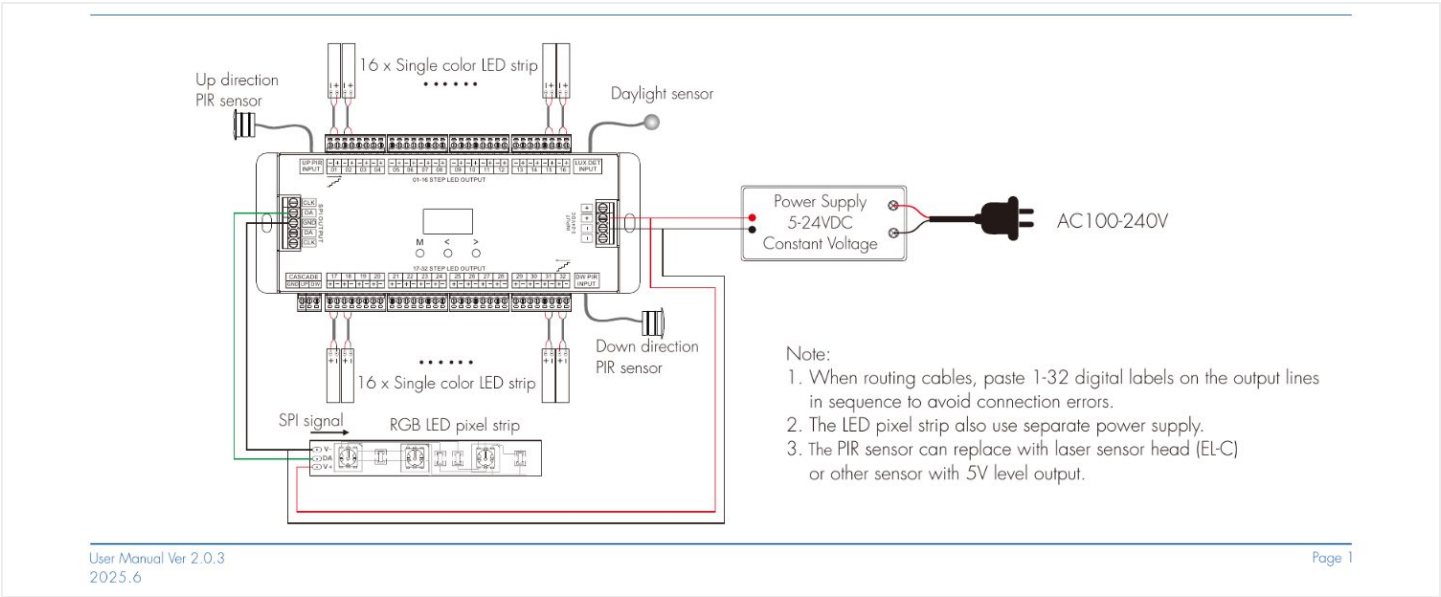
ELECTRICAL

Operating Voltage	24 V
Wattage	24 W
Current Draw	1 A
Input Connection Type	Screw terminal blocks

ENVIRONMENTAL

IP Rating	IP20
Ambient Operating Temperature	-30-55 °C -22-131 °F

DIMENSIONS & DIAGRAMS



WIRING DIAGRAM

CERTIFICATIONS & COMPLIANCE

RoHS

RoHS Compliant

CE

CE

APPLICATIONS

- Residential staircases
- Multifamily stair cores
- Hotel and hallway step lighting
- Commercial lobby stairs
- Basement and garage stairwells

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
beam_angle_deg	30°	pdf	high
led_lifetime_h	50,000 h	db	high
operating_voltage	24 V	pdf	high
wattage	24 W	db	high
current_draw	1 A	pdf	high
input_connection_type	Screw terminal blocks	pdf	high
product_dimensions	200 × 90 × 70 mm	pdf	high
material	ABS flame-retardant housing	pdf	high
mount_type	Wall or ceiling mounted PIR sensing heads	pdf	medium
weight	1.46 lb	pdf	high
ip_rating	IP20	both	high
ambient_temp_c	-30–55 °C	pdf	high
warranty_years	5 y	db	high

Specifications subject to change without notice.