FERVOUR

INSTRUCTION MANUAL

PIR Sensor Stair Light Controller

Model: FG-32

Input: 5-24VDC, Ta: 55°Cmax, Tc: 85°C; Power: 160-770W

- Please read this manual before using this electronic switch (appliance). Ensure that you know how the appliance functions and how to operate it.
- Maintain the appliance in accordance with the instructions to ensure that it functions safely. Always ensure the appliance has cooled completely before cleaning.
- Keep this manual with the appliance. If the appliance is to be used by a third party, this instruction manual must be supplied with it.
- The safety instructions do not by themselves eliminate any danger completely and proper accident prevention measures must always be used.
- No liability can be accepted for any damage caused by non- compliance with these instructions or any other improper use or mishandling.
- Always inspect your appliance before use. Check parts are correctly attached. Do not use this appliance if it has been damaged, dropped, left outdoors or dropped in water. Return it to an authorized service dealer for examination and repair.
- Keep appliance out of reach of children, and they shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Ensure that children and babies do not play with any packaging materials or plastic bags.
- This appliance is for indoor use only. Do not expose the appliance to moisture.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- When Installing the control gear, it should be kept in such distance, that it shall maintain a minimum horizontal distance of 75 mm from the sides and ends of the control gear to the sides of the wall and the minimum vertical distance of 75 mm from the top of the control gear to the underside of the surface or ceiling.
- Do not cover the control gear, please follow the instructions.

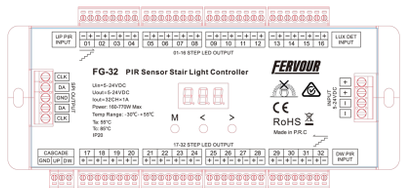
PIR Sensor Stair Light Controller

Model No.: FG - 32

PIR sensor/Daylight Sensor/Max 32 step/Compatible with 27 kinds IC/Max 960 pixels/OLED display

Features

- Multiple function PIR sensor stair light controller with daylight sensor.
- 32 channels constant voltage output drive low voltage LED strip, Max. 1A current per channel.
- 2 groups SPI(TTL) signal output, drive 27 kinds IC digital RGB LED strip, IC type and R/G/B order can be set. Compatible ICs: TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811,WS2812, TM1829, TM1914A, GW6205, GS8206,GS8208,LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813, SK9822.
- Easy operation with OLED display and 3 buttons.
- four work light mode selectable.
- Two stair light controller can cascade.
- Built-in multiple color mode, speed 1-8 grade adjustable.
- Push switch can also be as induction signal input.
- With fast self-testing function.

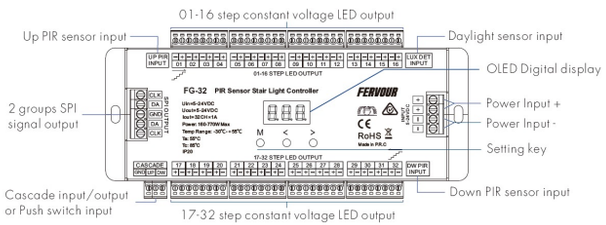


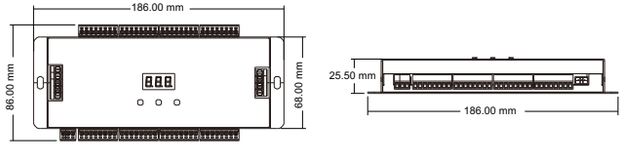
Technical Parameters

Input and Output	
Input voltage	5-24VDC
Output voltage	32 x (5-24)VDC
Output current	32CH,1A/CH
Output power	32 x (5-24)W
Output type	Constant voltage + SPI(TTL)

Environment	
Operation temperature	Ta: -30 ℃ ~ +55 ℃
Case temperature (Max.)	T c: +85℃
IP rating	IP20

Mechanical Structures and Installations





Accessories

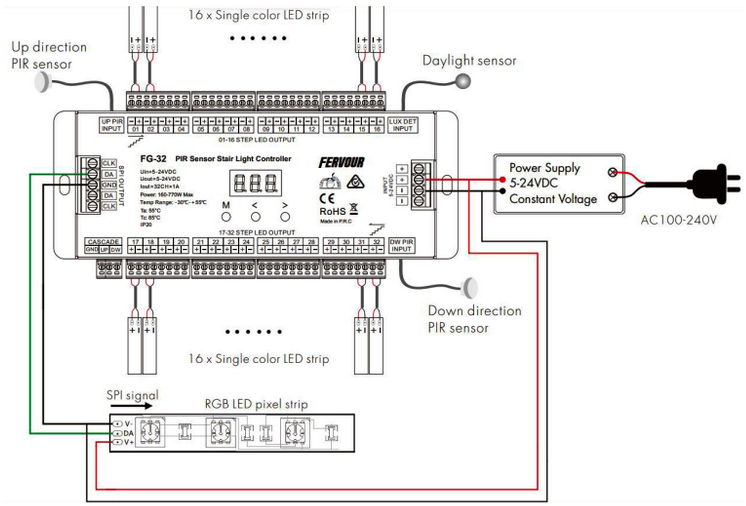
LED Controller 1 pcs

Daylight sensor（30cm） 1 pcs

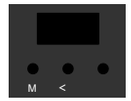
PIR sensor 2 pcs

PIR sensor extension line（5m） 2 pcs

Wiring Diagram



OLED screen and key operation



1. Short press M key, enter current work light mode parameter setting state.
2. Long press M key for 2s, enter system parameter setting state, to switch four work light mode, set light off mode, set push switch input function, set chip type and RGB order, set daylight sensor threshold.
3. When in parameter setting state, short press M key to switch between multiple parameter item, press < or > key for parameter adjustment.
4. Long press M key or wait 15s to quit parameter setting state.
5. Long press M & > key for 2s, start up direction induction light testing.
6. Long press M & < key for 2s, start down direction induction light testing.
7. Long press < & > key for 2s, restore factory default parameter.
8. The fourth line display color mode name defaultly, and will display induction signal input indication or light on/off state.
9. When induction light control process is over, the light will turn off after 10s(@speed 8) automatically. For speed 1-8 level, the turn off delay time is 45/40/35/30/25/20/15/10s respectively.

System parameter setting

WorkMode:
Switch between four work light mode.
CV_Step: Only multiple constant voltage LED strip light mode.
SD_Line: Only 1 or 2 straight line digital pixel LED strip light mode.
SD_Step: Only multiple Z-shape digital pixel LED strip light mode.
CV+SD_L : Multiple constant voltage LED strip + 1 or 2 straight line digital pixel LED strip light mode.

Off: Switch between two light turn off mode when induction light control process is over.

Delay sync: The light turn off at the same time after the delay time.
One by one: The light turn off one by one from the tail end.

Push: Switch between two push switch function.
Cascade: The push switch input work as cascade input/output or simulate PIR inductive input.
Light on: The push operation will turn on all light and turn off automatically after the delay time.

Chip: Switch between 10 class chip (below table) and 6 kinds RGB order (RGB,RBG,GRB,GBR,BRG,BGR). These parameter is valid only for the work mode with SPI signal output.

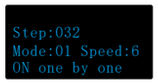
DefRGB: RGB hex value for user-define color. The parameter is valid only for the work mode with SPI signal output.

LuxSet: Daylight sensor threshold or disable (10, 30, 50, 100, 150, 200lux,OFF), With sufficient ambient light, the PIR sensor does not turn on the light. The digital value after * is current detected LUX value.

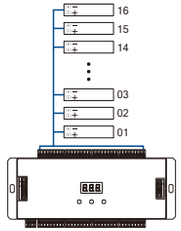
Digital pixel RGB LED strip compatible IC type list:

No.	IC type	Output signal
1	TM1809,TM1804,TM1812,UCS1903,UCS1909,UCS1912, UCS2903,UCS2909,UCS2912,WS2811,WS2812	DATA
2	TM1829	DATA
3	TM1914A	DATA
4	GW6205	DATA
5	GS8206,GS8208	DATA
6	LPD6803,LPD1101,D705,UCS6909,UCS6912	DATA,CLK
7	LPD8803,LPD8806	DATA,CLK
8	WS2801,WS2803	DATA,CLK
9	P9813	DATA,CLK
10	SK9822	DATA,CLK

Constant voltage LED strip light mode



Step: Total step number, 008-032
Mode: White mode number, 01-03
Speed: Speed grade, 1-8, 8 is the fastest speed.

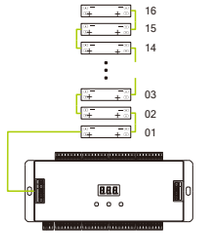


White mode list:

No.	Name
01	ON one by one
02	All OFF,Five ON
03	All ON,one OFF

Z-shape digital pixel LED strip light mode

Step: Total step number, 008-160
Dot: Pixel dot number of each step, 002-120 The Step number x Dot number must < 960
Mode: Color mode number, 01-12
Speed: Speed grade, 1-8, 8 is the fastest speed

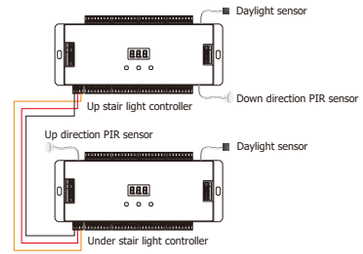


Color mode list:

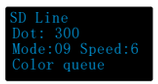
No.	Name
01	Red
02	Orange
03	Yellow
04	Green
05	Cyan
06	Blue
07	Purple
08	White
09	Color queue (7 color + White)
10	Color chase (7 color + White)
11	Color fade (6 color fade)
12	Rxxx Gxxx Bxxx (User define)

Two stair light controller cascade connection

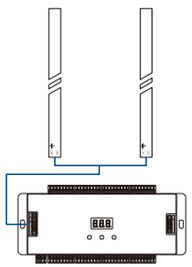
The under stair light controller connect Up direction PIR sensor and daylight sensor.
The up stair light controller connect Down direction PIR sensor and daylight sensor.
Two stair light controller connect cascade UP/DW line.
The push switch function must be set as cascade input.



Straight line digital pixel LED strip light mode



Dot: Pixel dot number, 032-960
Mode: Color mode number, 01-12
Speed: Speed grade, 1-8, 8 is the fastest speed.

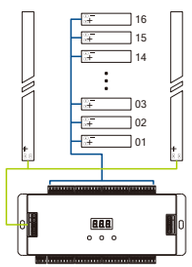


Color mode list:

No.	Name
01	Red
02	Orange
03	Yellow
04	Green
05	Cyan
06	Blue
07	Purple
08	White
09	Color queue (7 color + White)
10	Color chase(7 color + White)
11	Color fade (6 color flow)
12	Rxxx Gxxx Bxxx (User define)

Constant voltage LED strip + Straight line digital pixel LED strip light mode

Step: Total step number, 008-032
Dot: Pixel dot number, 032-960
Mode: Color mode number, 01-12
The mode number is used for straight line digital pixel LED strip only.
The mode for constant voltage LED strip is fixed On one by one.
Speed: Speed grade, 1-8, 8 is the fastest speed.



Color mode list:

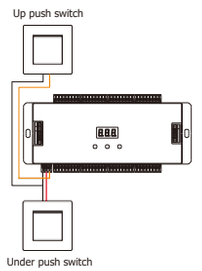
No.	Name
01	Red
02	Orange
03	Yellow
04	Green
05	Cyan
06	Blue
07	Purple
08	White
09	Color queue (7 color + White)
10	Color chase (7 color + White)
11	Color fade (6 color flow)
12	Rxxx Gxxx Bxxx (User define)

Two Push switch as up/down induction signal input connection

The under push switch connect cascade UP port of the stair light controller. The up push switch connect cascade DW port of the stair light controller. The push switch operation will ignore daylight sensor threshold setting.

When the push switch function be set as cascade input/output, the push operation will start induction light control process.

When the push switch function be set as light on input, the push operation will turn on all light, and the light will turn off after 20s(@speed 8) automatically. For speed 1-8 level, the turn off delay time is 90/80/70/60/50/40/30/20s respectively.



Warranty Card

Product Name: _____

Model No: Purchase Date: _____

Purchased From: _____

Your Name: _____

Your Address: _____

Phone Number: _____

Thank you for purchasing the FERVOUR brand. This quality product is guaranteed to be free from defects in materials and workmanship for a period of 12 Months from the date of purchase. This warranty is in addition to and in no way excludes, restricts, or modifies all Consumer rights set forth by law and any other statutory rights that the consumer may be entitled to.

Please contact the retailer from whom this product was purchased in the event of failure.

To claim this Manufacturer's warranty please return along with your proof of purchase (receipt), freight prepaid to the place of purchase. We will then, at our discretion, either repair or replace the defective parts or product. This Manufacturer's warranty is subject to us being satisfied that a defect or failure was caused by defective workmanship or materials and was not caused by or contributed to by other factors or circumstances beyond our control, including (but not limited to) defective installation, maintenance or repair, alteration, or modification of the product in a manner not recommended by the manufacturer or any neglect, misuse, or excessive use.

This warranty does not cover products purchased second hand.

Please retain this warranty card along with your purchase receipt. Please DO NOT post to the retailer or importer. If service is required, both of these documents are to be returned with the appliance to the place of purchase, otherwise a fee may be charged.

For product information please phone the help line:

Call Us: +64 9 393 0900, Email: contact@flinkglobal.com

Mon-Fri: 10:30am - 4:30pm NZDT

WARRANTY FOR APPLIANCES USED COMMERCIALLY LIMITED TO 90 DAYS

FlinkGlobal Limited, Auckland, New Zealand

https://flinkglobal.com/