



F27-1000 CORRIDOR LIGHTING CONTROLLER



The F27 corridor lighting controller enables the effect of light filling (unfolding) along the connected digital LED strip. Various animation effects are available for turning the lighting on and off. The controller is compatible with both doorbell buttons (monostable) and regular switches(bistable). Additionally, the device can be controlled via a remote control and the dedicated Wi-Fi bridge R240, as well as the B320 Firefly.

Number of used Outputs	Maximum number of pixels per output	Maximum length of the LED strip per output [m]		
		60d/m 24v	60d/m 12V	30d/m 12V
1	1000	100	50	100

Controller Configuration

Step 1: Pairing the Remote with the Controller

- Connect digital LED diodes to the controller.
- Turn on the controller and within 2 seconds of powering it on, briefly press "M", then "I" on the first zone switch (see fig. 1). The LED diodes should flash.

Step 2 (Optional): Increasing Animation Smoothness

- Initially, the controller is set to standard animation smoothness, but this can be increased using the paired remote. On the zone switch (5), briefly touch: "I" in the first zone FIVE TIMES, "I" in the second zone ONCE, "I" in the third zone TWICE, "I" in the fourth zone TWICE. The pixels should light up sequentially. If this does not happen, touch the "O" button on the main switch (1) until the pixels move sequentially. To save the changes, wait 3 seconds and disconnect the controller from the power supply.
- To reverse the process (decrease animation smoothness), on the zone switch (5), briefly touch: "I" in the first zone FIVE TIMES, "I" in the second zone THREE TIMES, "I" in the third zone TWICE, "I" in the fourth zone TWICE. The LED diodes should flash. To save the changes, wait 3 seconds and disconnect the controller from the power supply.

Step 3: Entering Configuration Mode

- Turn on the controller.
- To enter configuration mode, briefly touch the "S-" button twice, then "M", and then "S+" on the remote.

Step 4: Setting the Tape Length

- To set the appropriate length of the LED tape, use the "I" and "O" buttons on the first zone switch to fill the entire LED tape with lit sections until the flashing section reaches the end of the tape.
- To speed up this process, use the "I" and "O" buttons on the SECOND zone switch. This will light up 10 sections at a time instead of one.
- Once the length of the connected tape is set, press "M" on the remote, and the animation will start displaying.

Step 5: Setting the Animation Speed

- After completing the previous steps, you can set the animation speed. Use the "I" and "O" buttons on the first zone switch to increase/decrease the animation speed. Use the "S+" and "S-" buttons to change the animations. You can change them at any time, but the animation speed can only be changed in configuration mode. Proceed to the next step by pressing "M".

Step 6: Selecting the Type of Connected Button

- After completing the previous steps in the configuration, the first section of the LED strip will blink alternately.
- If adjacent sections are blinking, the monostable (bell) button is selected; if the blinking sections are spaced apart, the bistable (regular switch) button is selected. Change the selection using the "I" and "O" buttons on the first zone switch. This is the end of the configuration. If you want to change something, go through the next steps using the "M" button, and "I" at the top of the remote to exit the configuration menu.

Step 7: Exiting the Configuration Menu

- Press "I" at the top of the remote.

When the device operates with the B320 Firefly or the R240 Wi-Fi bridge, you can control the brightness, color, and turn the lighting on and off (if the controller is in monostable switch mode). The desired animation effect can only be selected using the remote control.

Note: When operating with a bistable switch (regular two-position switch), it is not possible to turn the lighting on and off using the remote control, R240 Wi-Fi bridge, or B320 Firefly.



Using the Remote Control

- **Main Switch (1):** Used to turn the lighting on and off.
- **Color Wheel (2):** Not used.
- **Brightness Slider (3):** Adjusts the brightness.
- **Program Buttons (4) "S-" and "S+":** Used to select the desired effect.
- **Zone Switches (5):** Switches to control the selected zone. To return from controlling a selected zone to controlling all zones, touch the main switch (1).
- **Slider (6):** Not used.
- **Slider (7):** Not used.
- **Button (8):** Not used.

Erasing the Remote Control from the Controller's Memory

1. Connect digital LED strip to the controller.
2. Turn on the controller and within 2 seconds of powering it on, briefly press "M", then "0" on any zone switch (5). The LEDs should flash.

Erasing All Remote Controls from the Controller's Memory

1. Connect digital LED strip to the controller.
2. Turn on the controller and within 2 seconds of powering it on, briefly press "M", then "0" on the main switch (1). The LEDs should flash.

Note

If, while using the remote, you accidentally touch the button of a zone other than the one programmed in the controller, the controller will not respond. This behavior is expected, as it is the intended function of the zones (allowing independent control of multiple controllers with one remote). Accidentally pressing a different zone button may suggest an apparent malfunction.

Note

Four-zone remotes of mono types B1, K1, T1, and FUT007 cannot enter the configuration menu or change effects.

Pairing a B1 or T1 Remote with the Controller

1. Connect LED strips to the controller.
2. Turn on the controller and within 2 seconds of powering it on, press "I" three times on a selected zone switch (5).
3. The LED strips should flash.

Erasing a B1 or T1 Remote from the Controller's Memory

1. Connect LED strips to the controller.
2. Turn on the controller and within 2 seconds of powering it on, press "0" three times on any zone switch (5).
3. The LED strips should flash.

Erasing All B1 or T1 Remotes from the Controller's Memory

1. Connect LED strips to the controller.
2. Turn on the controller and within 2 seconds of powering it on, press OFF three times.
3. The LED strips should flash.

Pairing the K1 Panel

1. Connect LED strips to the controller.
2. Turn on the controller and within 2 seconds of powering it on, press the "SET" button (9) on the back of the panel several times.
3. The LEDs should flash multiple times, indicating that the panel has been successfully paired.

Pairing the FUT007 Remote

1. Connect LED strips to the controller.
2. Turn on the controller and within 2 seconds of powering it on, press the "I" button (5) on the zone switch panel several times.
3. The LEDs should flash multiple times, indicating that the remote has been successfully paired.

Restoring Factory Settings

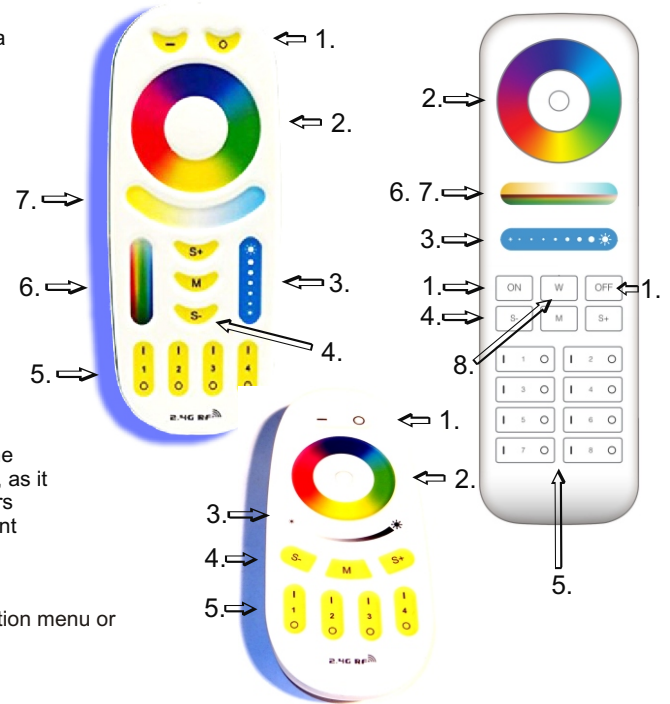
To restore factory settings, use a paired remote control. On the zone switch (5), briefly touch: - "I" on the first zone FIVE TIMES, - "I" on the second zone FIVE TIMES, - "I" on the third zone TWICE, - "I" on the fourth zone TWICE.

The controller's red LED should turn off for about 3 seconds.

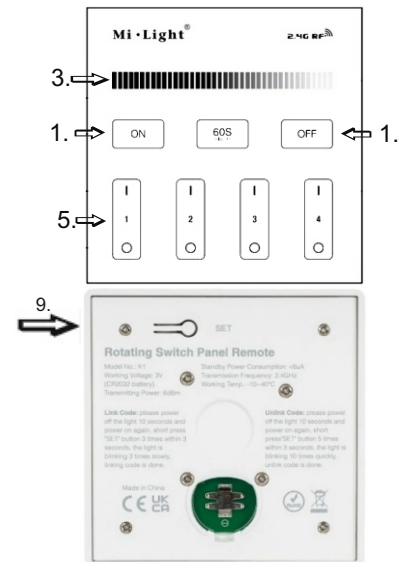
This function is available for controllers manufactured after April 1, 2024. The production date is indicated on the box.

SUPPORTED REMOTES

Mi-Light / MIBOXER
FUT089, FUT092, FUT096,,
FUT007, B3, T3, B4, T4,

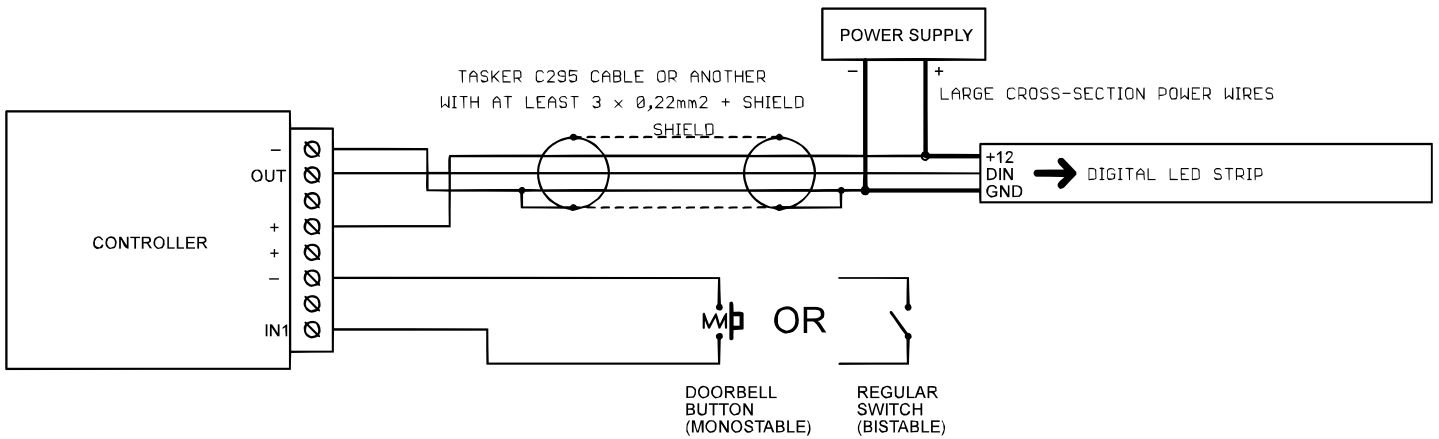


1. Main Switch
2. Color Wheel (Color Selection)
3. Brightness Slider
4. Program Buttons (S+ S-)
5. 4 or 8 Zone Switches
6. Color Saturation Slider
7. White Color Temperature Slider
8. White Color Switch

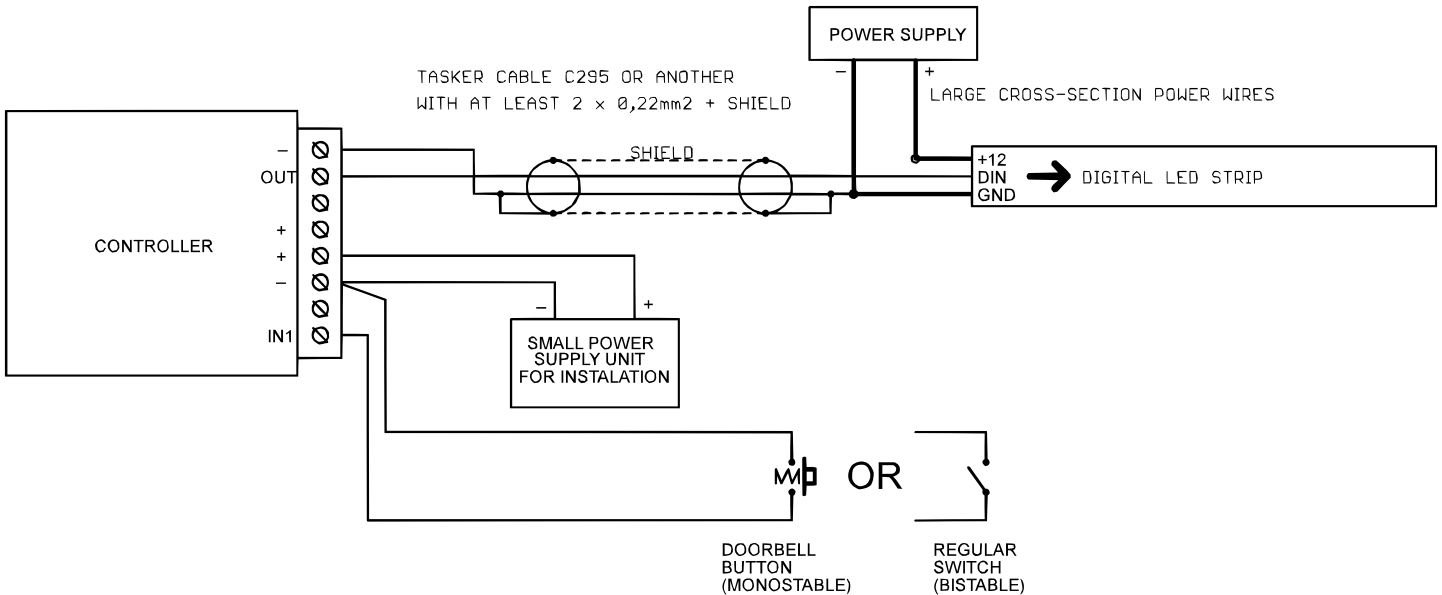


Connection diagrams:

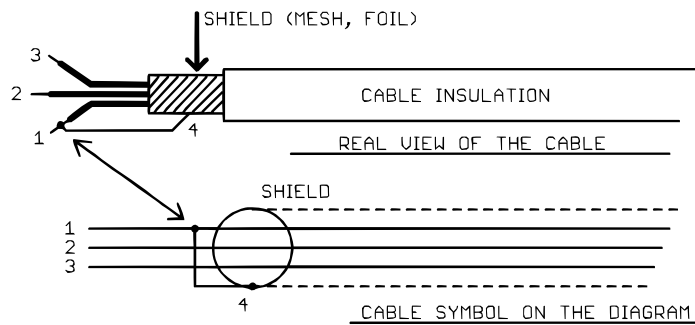
POWERING THE CONTROLLER FROM A COMMON POWER SUPPLY



POWERING THE CONTROLLER FROM A SEPARATE POWER SUPPLY



SHIELDED CABLE



SHIELD MUST BE CONNECTED!

Controller Parameters

- **Power Supply Voltage:** 5...24V
- **Button Inputs:** Active low state, inputs are pulled up to the power supply plus with 3.6kOhm resistors inside the controller
- **Supported ICs (Digital LEDs):** WS2811, WS2812S, WS2812B, WS2812D, WS2813, WS2815, WS2818, PD9823, SK6812, TM1803, TM1804, TM1809, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, APA104
- **Maximum LED Current via Screw Terminal:** 8A
- **Dimensions:** 60 x 84 x 30mm
- **Remote Control Frequency:** 2.4GHz, powered by 2 x AAA batteries

Required Operating Conditions

- **Ambient Temperature:** +1°C to +40°C
- **Relative Humidity:** 30% to 75%
- **Installation:** Only qualified personnel should install the device
- **LED Strip Control Wire:** Should not exceed 10cm when connected to the device output. For longer wiring, use shielded (coaxial) cable. The installer is responsible for selecting the correct wire and for any potential radio interference caused by improper wiring.
- **Digital LED Strips/Modules:** Must comply with applicable electromagnetic compatibility standards
- **Connection:** Perform with the power supply disconnected
- **Operation:** Not possible near heat sources, harmful radiation, or strong electromagnetic fields
- **Cleaning:** Use a damp cloth with the power disconnected
- **Damage:** Do not connect to power if the device is visibly damaged
- **Protection:** Keep the device away from water and other liquids

Required Storage Conditions

- **Location:** Indoors only, in an environment free of vapors and corrosive agents
- **Temperature:** -30°C to +40°C
- **Humidity:** 30% to 90% (non-condensing)

Disposal

Do not dispose of the device in regular waste containers. Dispose of unnecessary or used products at designated waste sorting centers operated by local authorities.

Disclaimer

The manufacturer accepts no liability for possible consequences resulting from incorrect installation, improper use of the device, failure to follow the user instructions, or unauthorized repairs.