

The F46 corridor controller enables the light-filling (unfolding) effect along the connected digital LED strip. A variety of animation effects are available for turning the lighting on and off. The controller is compatible with monostable (momentary) buttons, bistable (standard) switches, and reflective motion sensors (e.g., FS1 type), which are used to detect a person passing through the corridor. The presence of a person triggers the animation, which unfolds according to the selected effect. The animation “folds” after a set time. Additionally, the device can be controlled using a remote control, the R240 Wi-Fi bridge, and the B320 light switch. Another distinguishing feature of the device is the ability to activate dynamic effects on an already unfolded light line.

Strip type	Maximum number of pixels	Maximum strip length [m]		
		60d/m 24V	60d/m 12V	30d/m 12V
RGB	1000	100	50	100
RGBW SK6812	700	70	35	70
RGBW TM1814	700	70	35	70
CCT WS2811	1000	100	50	100
CCT TM1814	700	70	35	70
MONO	1000	100	50	100



Konfiguracja dla taśm RGB, RGBW SK 6812, RGBW TM 1814

Selecting the LED strip

Before starting the configuration, use a screwdriver to set the switch located on the bottom of the controller to the desired type of LED strip:

1. RGB,
2. RGBW SK6812,
3. RGBW TM1814,
4. CCT WS2811,
5. CCT TM1814,
6. MONO.

Step 1

Pairing the remote control with the controller (mandatory)

Each controller can be assigned a specific remote control and a specific zone (Fig. 1, buttons 5.). If this is not done, the controller will not respond to the remote control. To do this, follow these steps:

- Connect the digital LEDs to the controller
- Turn on the controller's power and within 2 seconds of powering on, briefly press "M", and then "I" on one selected zone switch (5.). The LEDs should blink.

Step 2

- To enter the configuration settings, press and hold the "M" button for 8 seconds.

Step 3

- After entering the configuration mode, the LEDs at the beginning of the LED strip should light up. Now, use the "S+" and "S-" buttons to ensure that the first three LEDs light up sequentially in the following colors: red, green, blue.
- Press the "M" button to proceed to the next step.

Step 4

Setting the LED Strip Length

- To set the correct length of the LED strip, use the "S+" and "S-" buttons to fill the LED strip with illuminated sections until the blinking section reaches the end of the strip.
- To speed up this process, you can use the "I" and "O" buttons on the SECOND zone switch. In this case, you will light up 10 sections at a time instead of one.
- Once the length of the connected strip is set, press "M" on the remote control, 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 "S+" and "S-" buttons on the first zone switch to increase/decrease the speed of the displayed animation. Move to the next step by pressing "M".

Step 6

Selecting the Type of Connected Button

- After completing the previous configuration steps, the first section of the LED strip will blink alternately.
- If adjacent sections are blinking, a monostable (momentary) button is selected. If the blinking sections are separated, a bistable (standard switch) button is selected. Change the selection using the "S+" and "S-" buttons.
- Move to the next step by pressing "M".

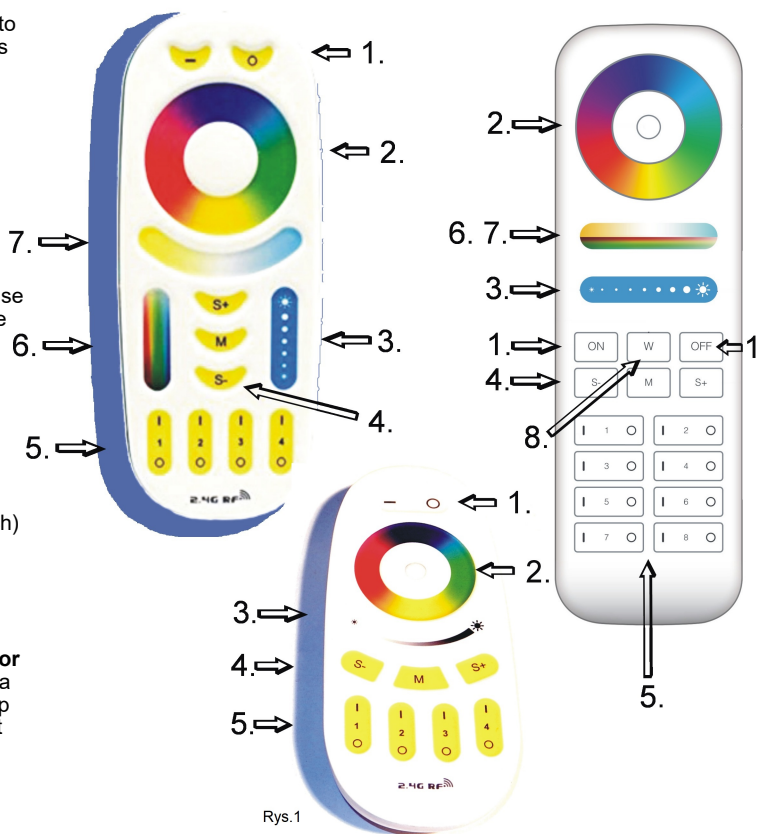
Step 7

Setting the Light Fade-Out Time After Triggering with a Motion Sensor

- Select the time after which the LEDs should fade out when triggered by a motion sensor. The number of sections lit at the beginning of the LED strip multiplied by 10 equals the number of seconds before the effect fades out (for example, 1 section equals 10 seconds, and 3 sections equal 30 seconds). Adjust the number of these sections using the "S+" and "S-" buttons.
- Press "M" to exit the configuration.

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

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



Konfiguracja dla taśm CCT WS2811, CCT TM1814, MONO

Selecting the LED strip

Before starting the configuration, use a screwdriver to set the switch located on the bottom of the controller to the desired type of LED strip:

1. RGB,
2. RGBW SK6812,
3. RGBW TM1814,
4. CCT WS2811,
5. CCT TM1814,
6. MONO.

Step 1

Pairing the remote control with the controller (mandatory)

Each controller can be assigned a specific remote control and a specific zone (Fig. 1, buttons 5.). If this is not done, the controller will not respond to the remote control. To do this, follow these steps:

- Connect the digital LEDs to the controller
- Turn on the controller's power and within 2 seconds of powering on, briefly press "M", and then "I" on one selected zone switch (5.). The LEDs should blink.

Step 2 (optional)

Increasing animation smoothness **NOTE! This can only be done for COB MONO strip!**

- By default, the controller is set to standard animation smoothness, but it can be increased. This change is made using a paired remote control. On the zone switch (5), briefly press "I" on the first zone FIVE TIMES, on the second zone ONCE, on the third zone TWICE, on the fourth zone TWICE.

The pixels should light up sequentially. If this does not happen, press the "O"/"OFF" button on the main switch (1) repeatedly until the pixels move sequentially. To save the changes, wait 3 seconds and disconnect the controller from the power supply.

To reverse the process (reduce animation smoothness), on the zone switch (5) briefly press "I" on the first zone FIVE TIMES, on the second zone THREE TIMES, on the third zone TWICE, on the fourth zone TWICE.

The LED diodes should blink. To save the changes, wait 3 seconds and disconnect the controller from the power supply.

Step 3

- To enter the configuration settings, press and hold the "M" button for 8 seconds.

Step 4

Setting the LED Strip Length

- To set the correct length of the LED strip, use the "S+" and "S-" buttons to fill the LED strip with illuminated sections until the blinking section reaches the end of the strip.

- To speed up this process, you can use the "I" and "O" buttons on the SECOND zone switch. In this case, you will light up 10 sections at a time instead of one.

- Once the length of the connected strip is set, press "M" on the remote control, 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 "S+" and "S-" buttons on the first zone switch to increase/decrease the speed of the displayed animation. Move to the next step by pressing "M".

Step 6

Selecting the Type of Connected Button

- After completing the previous configuration steps, the first section of the LED strip will blink alternately.

- If adjacent sections are blinking, a monostable (momentary) button is selected. If the blinking sections are separated, a bistable (standard switch) button is selected. Change the selection using the "S+" and "S-" buttons.

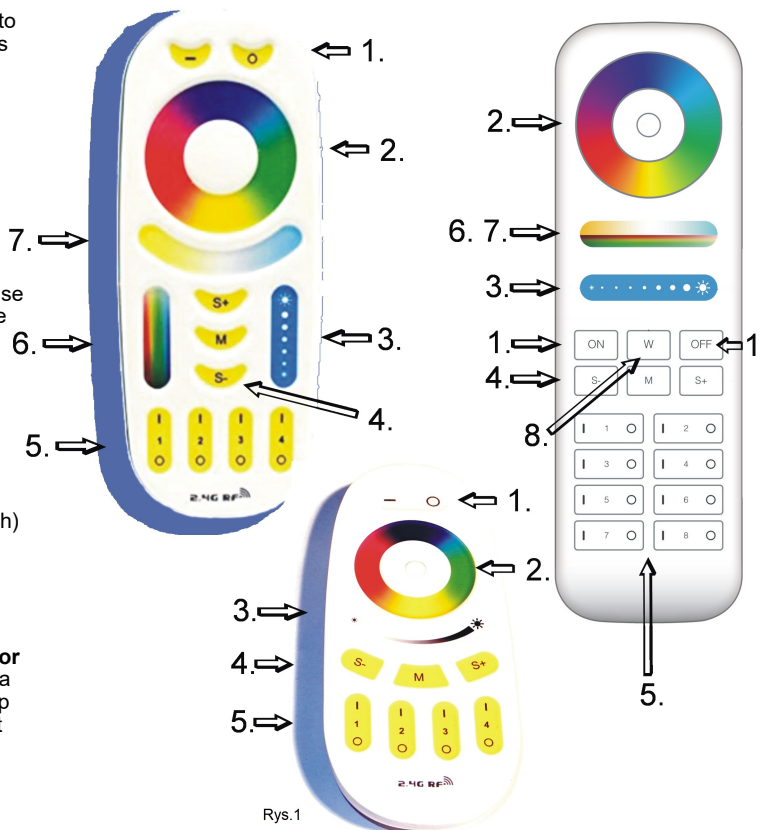
- Move to the next step by pressing "M".

Step 7

Setting the Light Fade-Out Time After Triggering with a Motion Sensor

- Select the time after which the LEDs should fade out when triggered by a motion sensor. The number of sections lit at the beginning of the LED strip multiplied by 10 equals the number of seconds before the effect fades out (for example, 1 section equals 10 seconds, and 3 sections equal 30 seconds). Adjust the number of these sections using the "S+" and "S-" buttons.

- Press "M" to exit the configuration.



Rys. 1

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

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

Using the remote control.

The main switch (1.) allows you to turn the lighting on and off. To achieve a white color, press and hold "-"/"ON" on the main switch or "I" on any zone switch (5.) for a longer time. Continuous pressing changes the white color temperature.

The color wheel (2.) is used to select the color (or set of colors) in which the light effects are created. Some effects (e.g., rainbow) do not respond to the color wheel.

The brightness slider (3.) adjusts the brightness.

The program buttons (4.), "S-" and "S+", are used to select the desired effect of folding and unfolding the light line.

The "M" button (4.) starts the animation when the light line is already unfolded. Holding this button longer will turn off the animation.

Zone switches (5.) are used to enter the control mode for a selected zone. Returning from controlling a selected zone to controlling all zones is done by touching the main switch (1.).

Slider (6.) - adjusts the color saturation.

Slider (7.) - changes the white color temperature.

Button (8.) - activates the white color. Subsequent presses will change the temperature.

Deleting a remote control from the controller's memory.

- connect digital LED strips to the controller
- turn on the controller's power and within 2 seconds of powering on, briefly press "M", and then "0" on any zone switch (5.). The LEDs should blink.

Deleting all remote controls from the controller's memory.

- connect digital LED strips to the controller
- turn on the controller's power and within 2 seconds of powering on, briefly press "M", and then "0"/"OFF" on the main switch (1.). The LEDs should blink.

WARNING! If, while using the remote control, you accidentally press a button for a zone other than the one programmed in the controller, the controller will not respond. This behavior is intentional, as it is how zones function (allowing independent control of multiple controllers with a single remote). Accidentally pressing another zone may suggest a false malfunction.

Restoring Factory Settings

Factory settings can be restored using a paired remote control. On the zone switch (5), briefly press "I" on the first zone FIVE TIMES, on the fourth zone TWICE.

The red LED on the controller should turn off for approximately 3 seconds.

WARNING! The 4-zone remotes of the mono type B1, K1, T1, and FUT007 cannot access the configuration menu or change effects.

Pairing a B1 or T1 remote with the controller

- Connect the LED strips to the controller.
- Turn on the controller's power and within 2 seconds of powering on, press "I" three times on one selected zone switch (5.).
- The LED strips should blink.

Deleting a B1 or T1 remote from the controller's memory

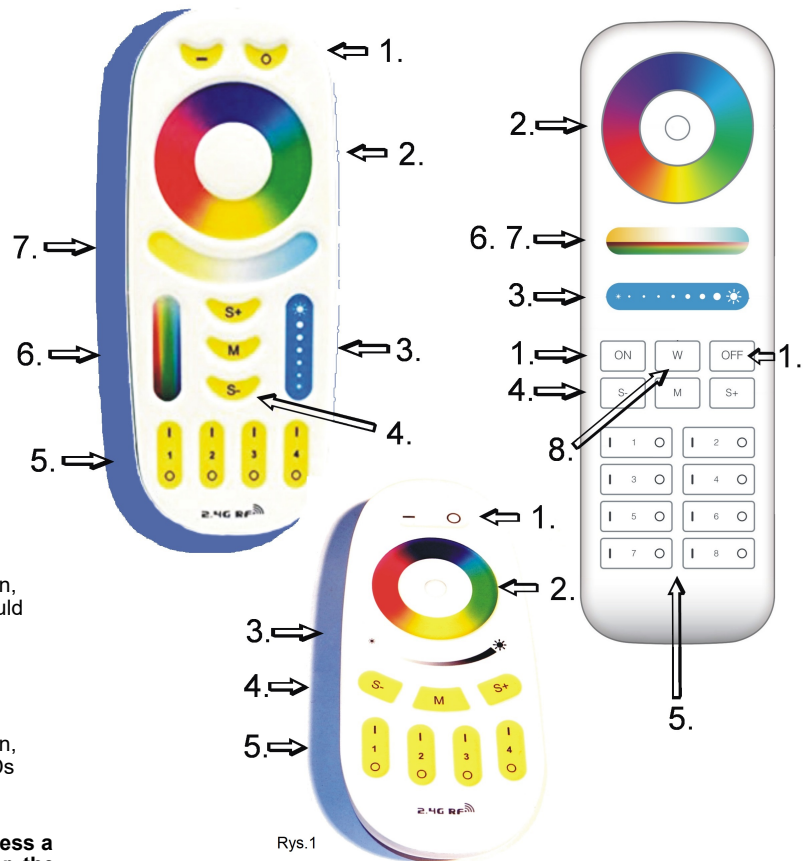
- Connect the LED strips to the controller.
- Turn on the controller's power and within 2 seconds of powering on, press "0" three times on any zone switch (5.).
- The LED strips should blink.

Deleting all B1 or T1 remotes from the controller's memory

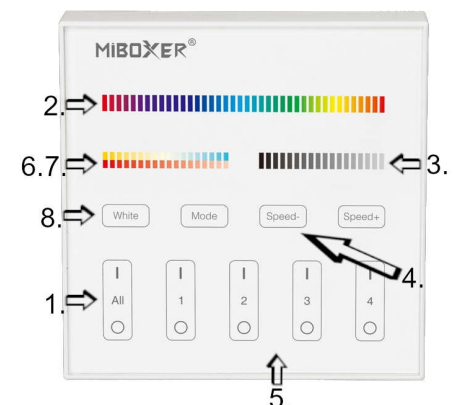
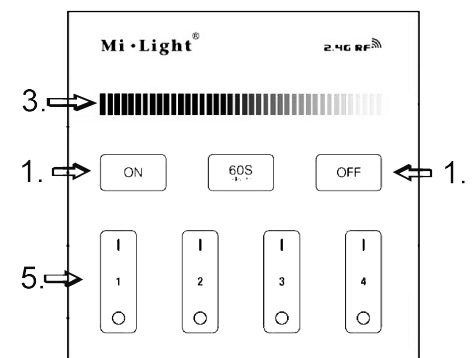
- Connect the LED strips to the controller.
- Turn on the controller's power and within 2 seconds of powering on, press OFF three times.
- The LED strips should blink.

SUPPORTED REMOTE CONTROLS:

Mi-Light / MIBOXER
FUT089, FUT092, FUT096
B3, T3, B4, T4, K1, FUT007, T1

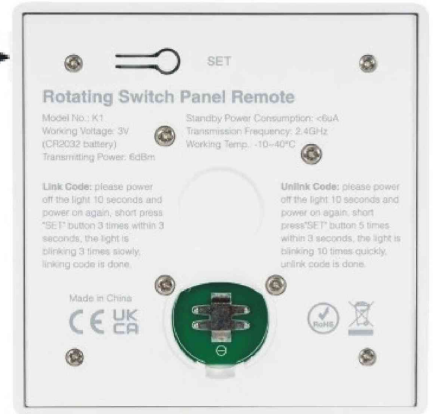


1. Main switch. Turns all zones on and off.
2. Color wheel (color selection).
3. Brightness slider.
4. Program buttons (S+ S-).
5. 4 or 8 zone switches.
6. Color saturation slider.
7. White color temperature slider.
8. White color switch.



Pairing the K1 Panel

- Connect the LED strips to the controller.
- Turn on the controller's power and within 2 seconds of powering on, press the "SET" button (9) multiple times on the back of the panel. The LEDs should blink several times – the panel has been successfully paired.



Pairing the FUT007 Remote

- Connect the LED strips to the controller.
- Turn on the controller's power and within 2 seconds of powering on, press the "1" button (5) on the zone switch panel multiple times. The LEDs should blink several times – the remote has been successfully paired.

If you want the light to turn on automatically for a specific duration, you can use the FS24 proximity switch instead of a bistable button. The FS24 switch has adjustable sensitivity (distance at which it reacts) and duration for which the lighting will remain on (from 5 to 90 seconds).

Note that in the Controller Configuration, the bistable button must be selected.

Controller Specifications

- 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
- Maximum LED current when powered through the screw terminal: 8A
- Dimensions: 60 x 84 x 30mm
- Remote control operating frequency: 2.4GHz, powered by 2 x AAA batteries
- Supported ICs (digital LEDs):
WS2811, WS2812S, WS2812B, WS2812D, WS2813, WS2815,
WS2818, PD9823, SK6812, TM1803, TM1804, TM1809, UCS1903,
UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, APA104
SK6812 RGBW, WS2814
TM1814 RGBW

Required Operating Conditions:

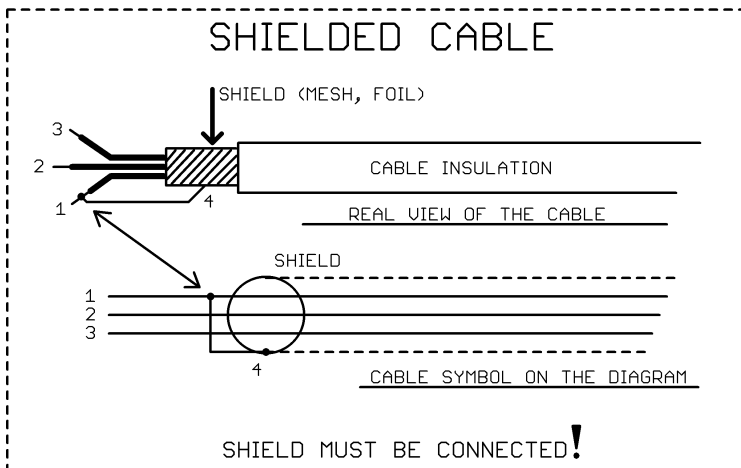
- Ambient temperature: +1°C to +40°C
- Relative humidity: 30% to 75%
- The device may only be installed by a person with the appropriate qualifications.
- The LED strip control wire (connected to the device output) should not exceed 10cm. If longer wiring is needed, the control signal must be transmitted using a shielded (coaxial) cable. The responsibility for selecting the correct cable and addressing potential radio interference caused by improper wiring lies with the installer.
- The connected digital LED strip or digital LED modules must comply with applicable electromagnetic compatibility standards.
- Connect the device only when the power supply is disconnected.
- The device cannot operate near heat sources, harmful radiation, or strong electromagnetic fields.
- Clean the housing with a damp cloth, ensuring the power is disconnected.
- Do not connect the power supply if the device has visible damage.
- Protect the device from contact with water and other liquids.

Required Storage Conditions:

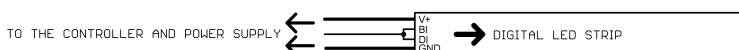
- Only in enclosed spaces where the atmosphere is free of vapors and corrosive substances.
- Ambient temperature: -30°C to +40°C, air humidity: 30% to 90% (non-condensing).

Device Disposal:

The device must not be discarded in regular waste bins. Unneeded or used products should be delivered to specialized recycling centers operated by municipal authorities.

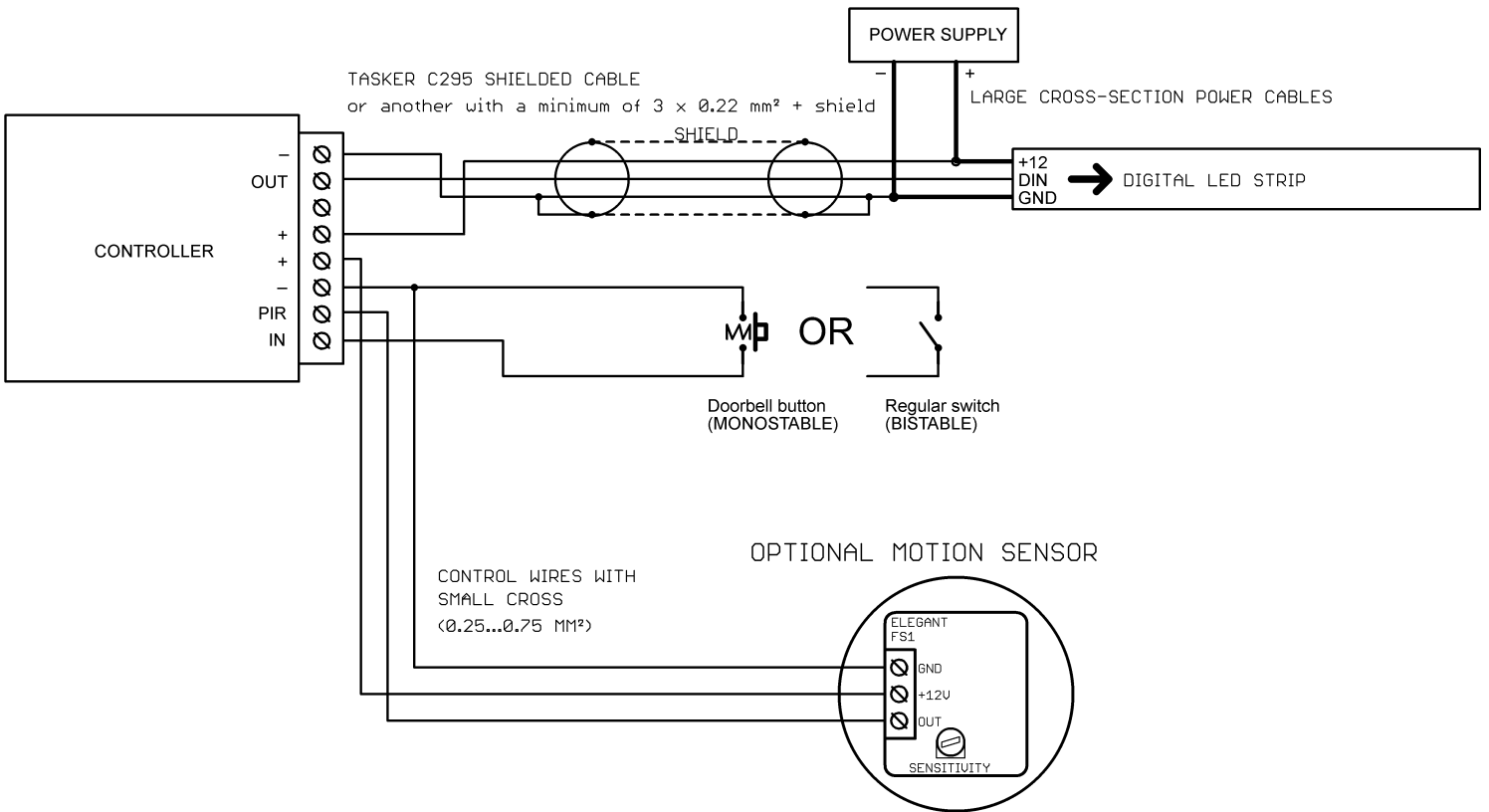


CONNECTION IN THE CASE OF FOUR-WIRE STRIPS
(WS2813, WS2815, WS2818)



Connection Diagrams

CONTROLLER POWER SUPPLY FROM A COMMON POWER SUPPLY



CONTROLLER POWER SUPPLY FROM A SEPARATE POWER SUPPLY

