LED track lights for cabinets

User Manual

This folder should always be in close proximity to the product

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1. General Requirments

1.1 Product information

Manufacturer:	Ropox A/S Ringstedgade 221, DK-4700 Naestved +45 55 75 05 00 Email: Info@ropox.com			
Product models	Part number	Model	Configuration	UDI
	30-42620 30-42621 30-42622 30-42623 30-42624 30-42625 30-42626	320 mm 520 mm 720 mm 1020 mm 2X 520 mm 520 + 720 mm 2X 720 mm	40 – 50 cm 60 – 70 cm 80 – 100 cm 110 – 120 cm 130 – 140 cm 150 cm 160 – 180 cm	
Power supply	100-240V ~50/60Hz			
IP rating	IP20			
Ambient temperature range	-10 - 40C° Transport and storage			

Product data

LED strip:
24V DC, 19,2W/m
CCT 2700-6000 kelvin
1500-1600 lumen/m (raw lumens)
IP20

Controller:

12-24V DC, 288W max.

RF   2.4GHz

Range   30m

Remote:

3V DC (CR2032 battery not included)

RF   2.4 GHz

Range   30m

Power supply:

Input   100 - 240 VAC, 1A, 50-60Hz

Output   24V DC, 2,5A, 60W

Power usage/LED light

320mm   5,76 W

520mm   9,6 W

720mm   13,44 W

1020mm   19,2 W

1.2 Product description

Ropox LED lights are mounted on Ropox wall cabinets; Diagonal and VertiInside.
The product is used to provide extra light over the work surface if the existing lighting is not sufficient.
The light can be adjusted in both brightness and color (from warm white, 2700K, to cold white, 6000K), with the included controller, and can thus be adapted as needed for the situation and comfortable lighting.
The product can also be mounted on other cabinets/wall cabinets if you wish to expand the system beyond Ropox products.

1.3 Basic safety

Ensure that the product is fully functional without visible damage or breakage to the LED lights or cables.
Keep cables away from sharp edges and pointed objects, as this can lead to insulation breakage and short circuits in the product.
If there are faults or damage to the product, it must not be connected to power.
When replacing parts, always disconnect the power.

1.4 Complaints and incidents

Any serious incident that has occurred in connection with the equipment should be reported to the manufacturer and the competent authority in the member state where the user and/or patient is established.

2. Instructions for use

2.1 Installation of the product

The product should only be installed by a qualified installer.
Read and understand the instructions before installing this product.
Note! If several LED lights are connected to the same controller, the total consumption must not exceed 60W, as this may damage the power supply. Optimally, the total consumption should not exceed 50W.

Mounting of LED track and cable on safety stop plate:
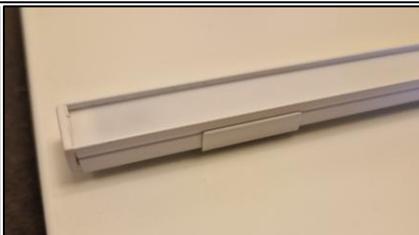**Note:** This step is only necessary when retrofitting the light.

1: Mount the two mounting clips with the supplied screws in the Ø2mm holes as shown in the picture.	

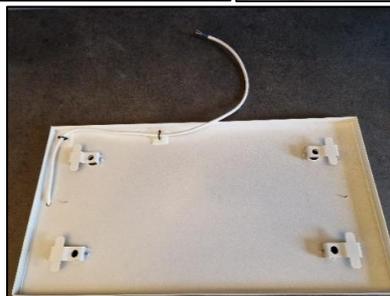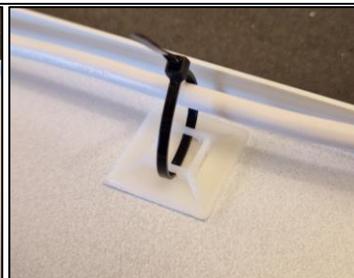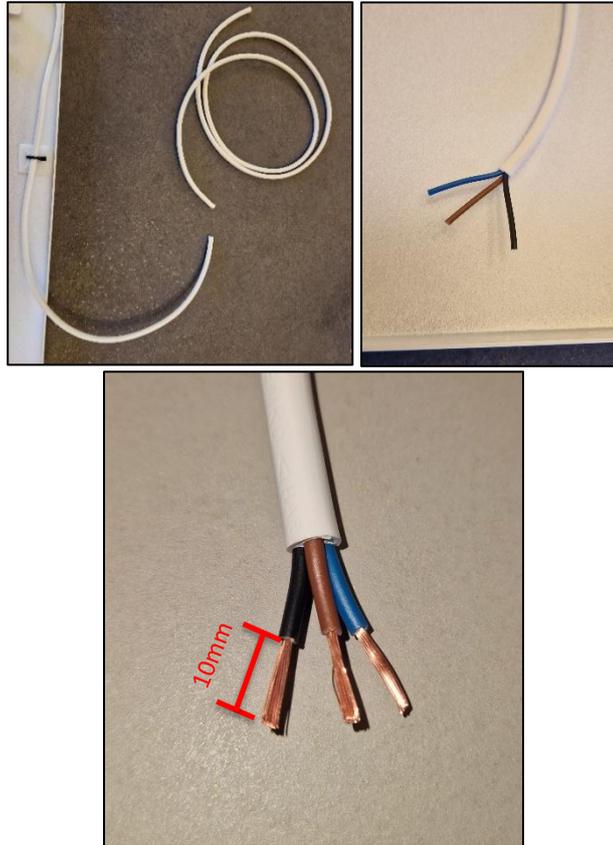|	
2: Pass the wire through the 8mm hole near one of the mounting clips.	
3: Pull the cable all the way through and mount the LED track in the clips.	
4: Flip the plate. Degrease the surface and mount the cable tie ankers towards the back (the part closest to the wall) and tie the cable as shown. **Note!** For a Diagonal unit, you only need to mount 1 cable tie anker in the corner.	

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2.2 Mounting the lights on VertiInside

|	
1: The cable is cut down, about 100cm, to a fitting length and stripped as shown.	
2: Lower the cabinet to the lowest position and take off the over to the electronics compartment. Find the spiral cable with 3 leads, Red, Green and yellow. Pass the wires through the hole in the top of the cabinet (see mounting instructions for Vertiinside).	

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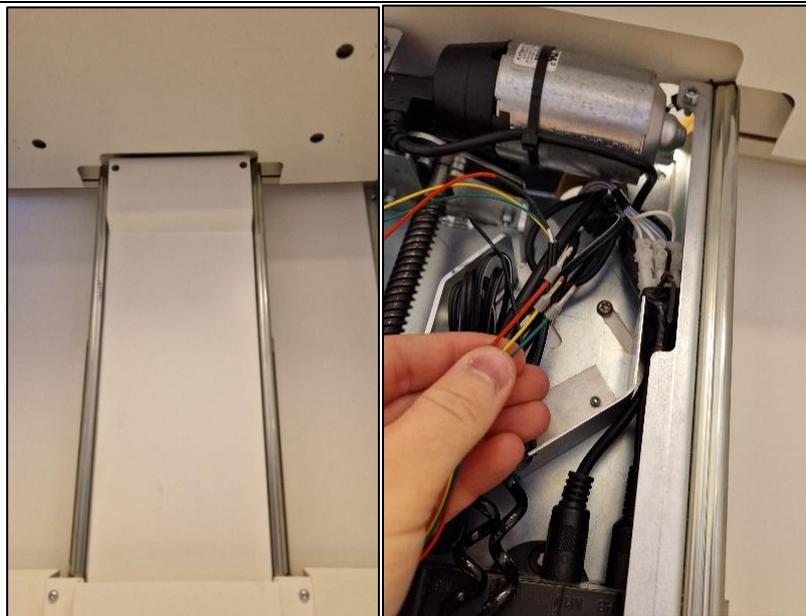
3: Mount the controller with the supplied double-sided tape. Connect the wires as shown. 	

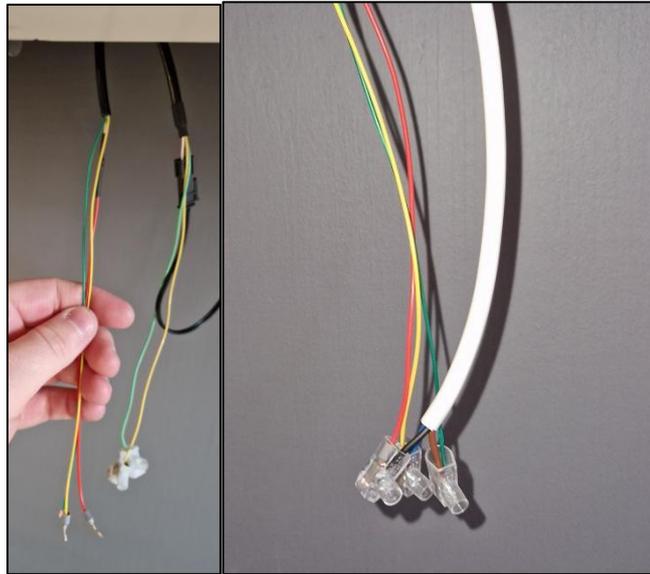| Color	Function
Red	V+
Green	Cool white (CW)
Yellow	Warm white (WW)
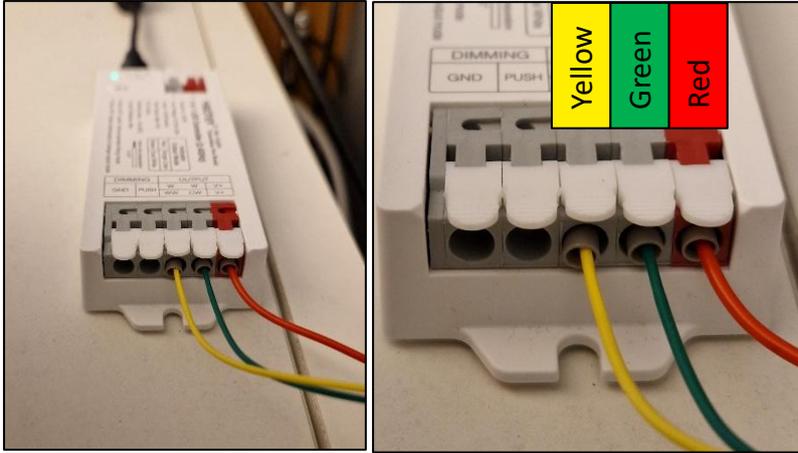
4: Mount the safety stop plate and screw it in place. Make sure the wires are hanging out in the back, easy to reach.	

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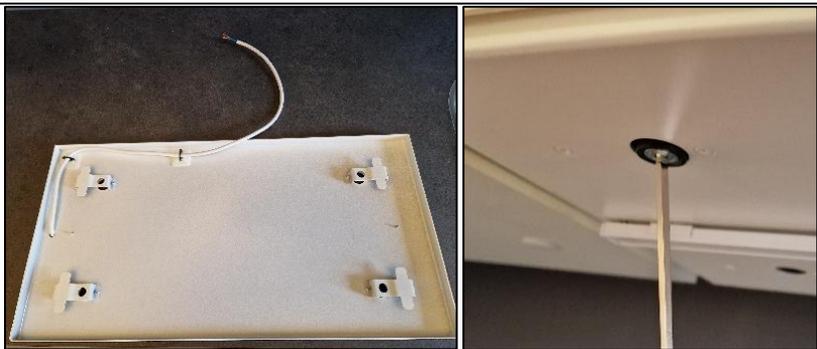
5: Take the other end of the spiral cable and connect it to the cable from the LED light with screw terminals	

Connections:

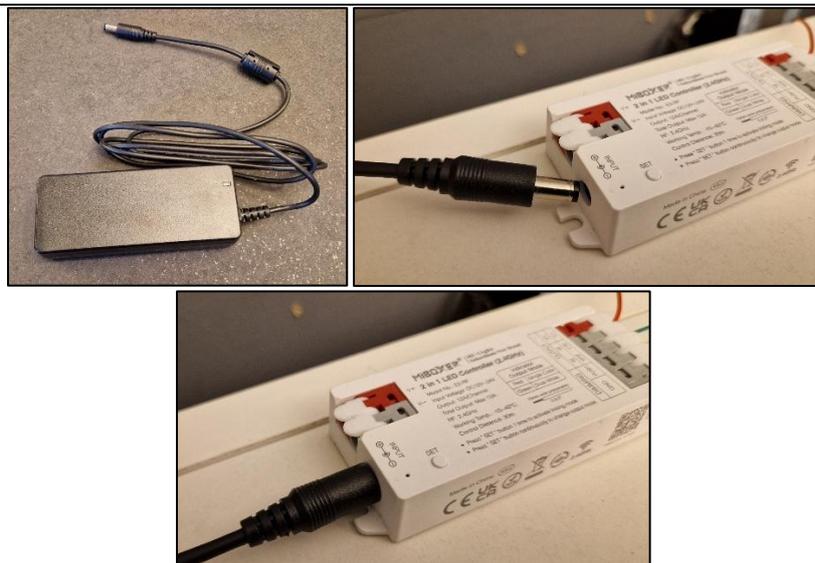| Spiral cable		Led light
Red	⟶	Black
Green	⟶	Brown
yellow	⟶	Blue

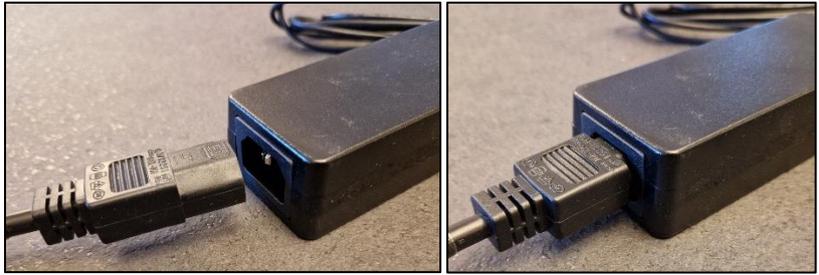| 6: Bundle the cables and tug them in the safety stop. Make sure the cables are not being pinched, and the safety stop works as intended.	

7: Connect the power supply to the controller.	

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8: Connect the power supply to mains power, with the cable supplied.	
9: Remember to cover the mounting holes again.	

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2.3 Mounting the lights on Diagonal

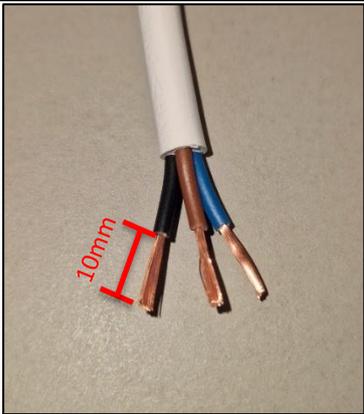|	
1: Pass the cable from the LED light through the slit on the back of the top part of the safety stop.	
2: Mount the lower part. The cable is routed the same way as the cable for the safety switch. Ensure the safety stop functions as intended.	
3: Lead the cable up along the frame. There are holes cut in the frame to secure the cable with cable ties.	

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4: Secure the cable on the top with cable ties. Make sure the cable is straight and secure to avoid pinching.	
5: Strip the cable as shown in the picture.	
6: Connect the cable to the controller as shown, following the table. | Color	Function
Black	+24V
Brown	Cool white (CW)
Blue	Warm white (WW)		

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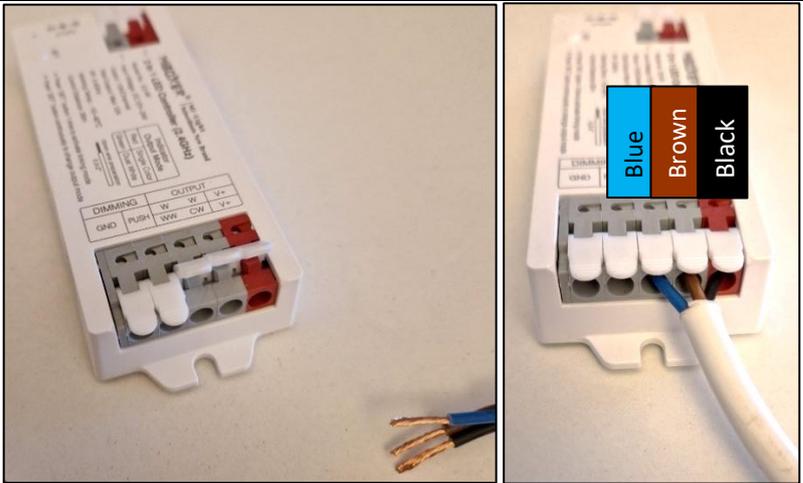
7: Degrease the top of the cabinet and mount the controller with the supplied double-sided tape. TF 200.02.0137	
8: Find the power supply.	
9: Connect the power supply to the controller.	
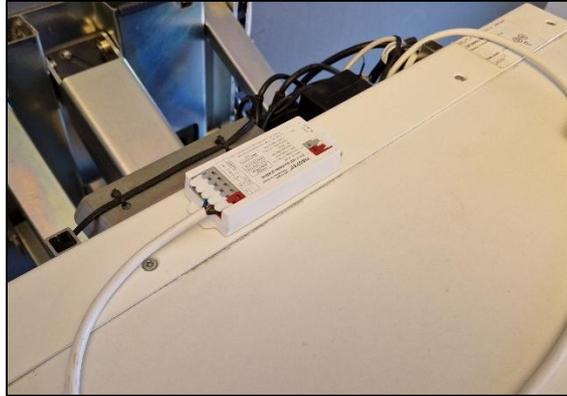
10: Lead the cable along the cable chain and tie it sufficiently with cable ties to the chain.	
11: Place the power supply as needed, Suggestion could be with double-sided tape on the wall. Be aware not to place it in a spot where it can be pinched or damaged by the cabinet unit.	
12: Connect the power supply to mains power with the cable supplied.	
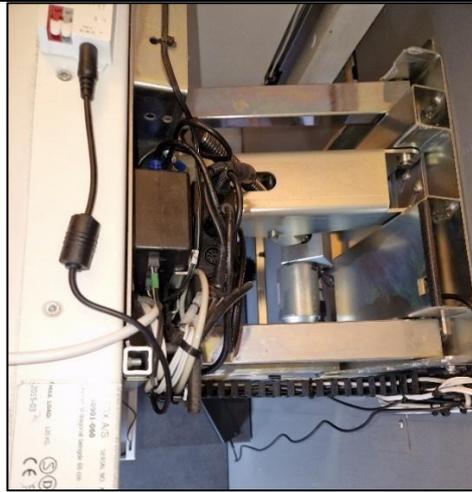
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2.4 Operation of the product

Remote:
Included is a controller with a magnetic base that can be mounted on a flat surface with the double-sided tape on the back.
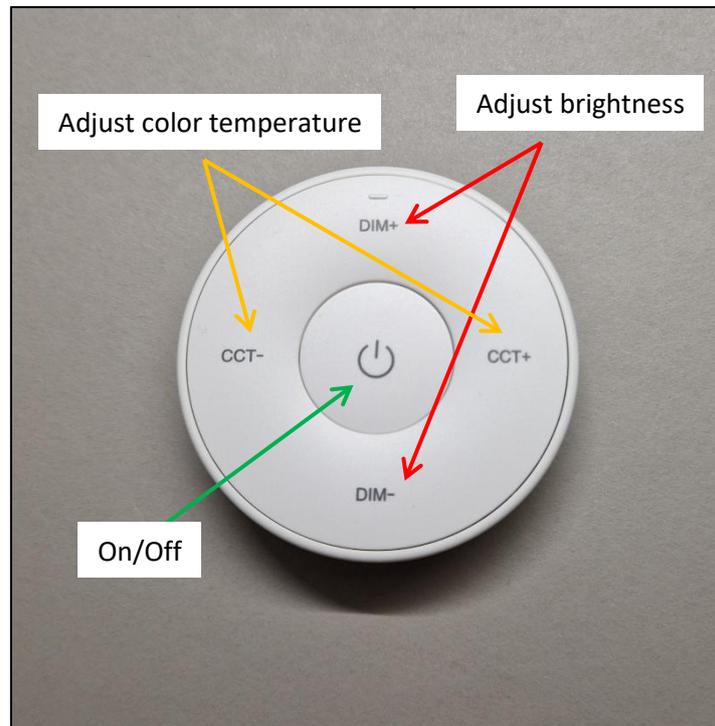

Using the remote:
- Turn the light on and off.
- Adjust the brightness (DIM + / DIM -)
- Adjust the color temperature of the light (CCT + / CCT -)

The remote has a range of up to 30 meters.

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Installation of battery in the remote (CR2032, not included):

Controller:
The included controller is a 2-in-1 controller with the following functions:
- Dual white – allows the color of the light to be adjusted from warm white to cool white
- Single color – intended for an LED light source with a fixed color
  Both modes can adjust brightness.
  To use the product, the controller and the remote must be linked.

Linking the remote and controller:
Connect power to the controller and insert the battery into the remote.
- Press the "SET" button once on the controller
- The indicator light starts blinking
- Press the "SET" button on the remote 3 times
- If the light blinks 3 times, pairing is successful
- If not, try again.

Unlinking the remote and controller:
- Press the "SET" button on the controller once
- Press the "SET" button on the remote 5 times in a row
- If unlinking is successful, the light blinks 10 times
- If not, try again.

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It is possible to link several controllers to the same remote.
This is done by linking each controller with the remote, one at a time.

Setting the controller:
The controller will by default be set to Single color mode, and it must be set to Dual White mode.
If the color of the light (color temperature) cannot be adjusted, the controller is in Single color mode and must be switched to Dual White mode.

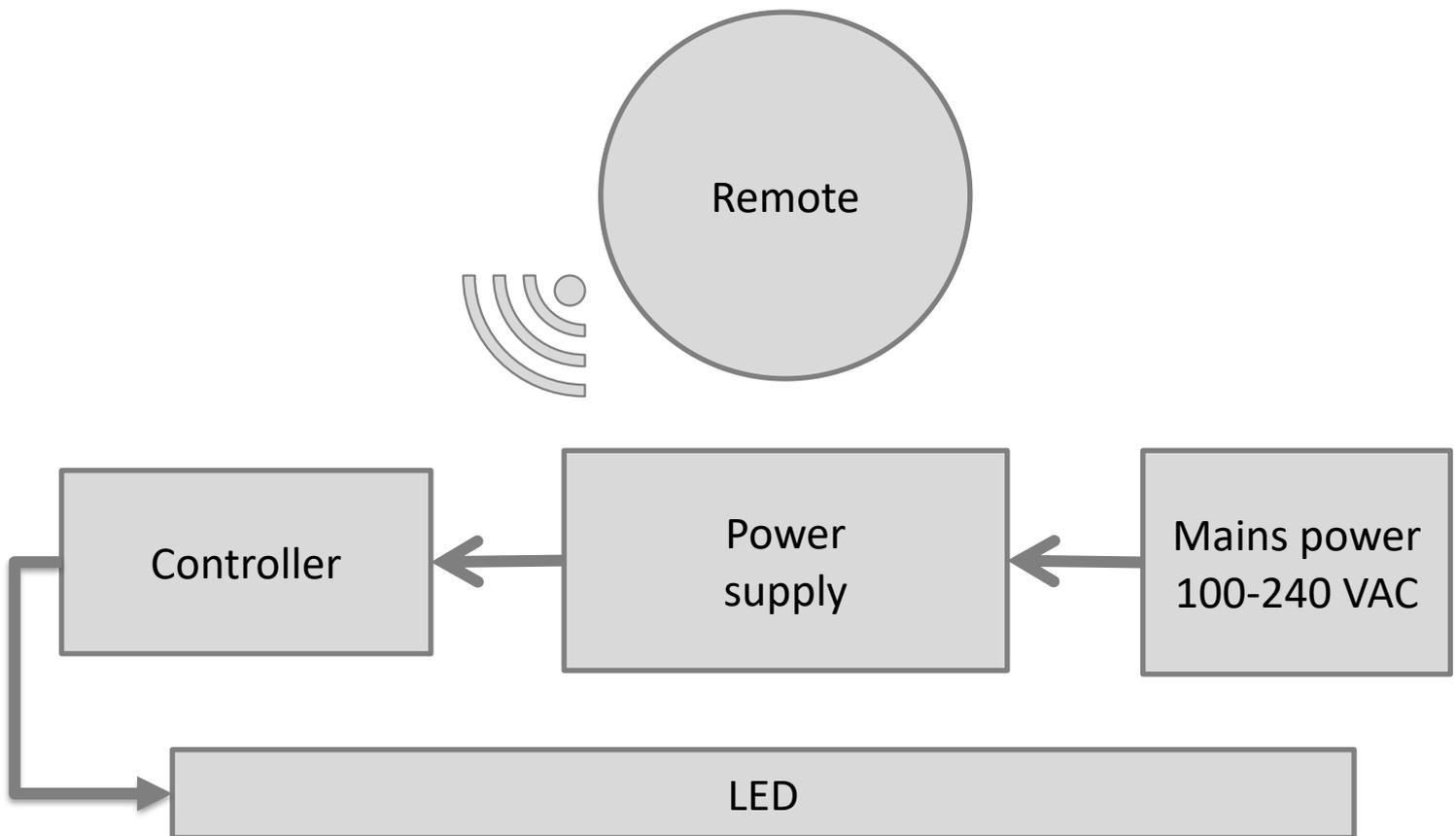You can see the mode by the indicator light on the controller:
Red light = Single color
Green light = Dual White

The mode is changed by pressing the "SET" button twice, and the indicator changes color and blinks for about 5 seconds; when the indicator lights up steadily, it is ready.

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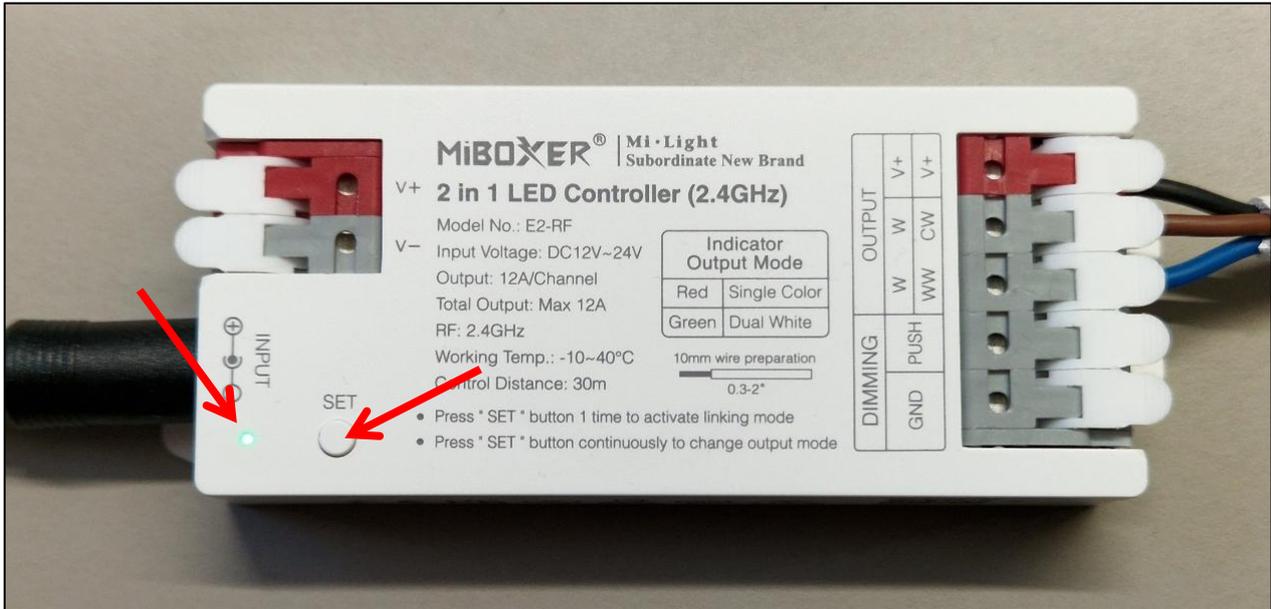
2.5 Electrical Block diagram

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                    ┌─────────────┐
                    │   Remote    │
                    │             │
                    └─────────────┘

┌────────────┐      ┌────────────┐      ┌──────────────┐
│ Controller │ ◄──  │   Power    │ ◄──  │ Mains power  │
│            │      │   supply   │      │ 100-240 VAC  │
└────────────┘      └────────────┘      └──────────────┘

┌──────────────────────────────────────────────────────┐
│                        LED                             │
└──────────────────────────────────────────────────────┘
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3. Spare parts list

Spare parts

Item No.	Description
30-42630	LED track light 320mm
30-42631	LED track light 520mm
30-42632	LED track light 720mm
30-42633	LED track light 1020mm
30-42627	Power supply, 24v 60w, 100-240VAC
30-42628	Controller for LED light
30-42629	Remote for LED light

LED-tracks are supplied with mounting clips, screws and 2 meters of cable.

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4. Environmental protection

The product is not intended for disposal as municipal waste. Proper disassembly, sorting, and disposal of components must be done by waste disposal professionals.

Part	Disposal recommendations
Power supply	Electronic
Controller	Electronic
LED track	Electronic
Remote	Electronic (Note the battery)

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