# MAGNETIC LIGHTING TRACK SYSTEM RADITY

MAYTONI

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# 1. DESCRIPTION AND INTENDED USE OF THE DEVICE

The TRX084 series magnetic track system is the basis for building track lighting and is designed for mounting and supplying power to track lights in the DC electrical power grid with 48V of nominal voltage.

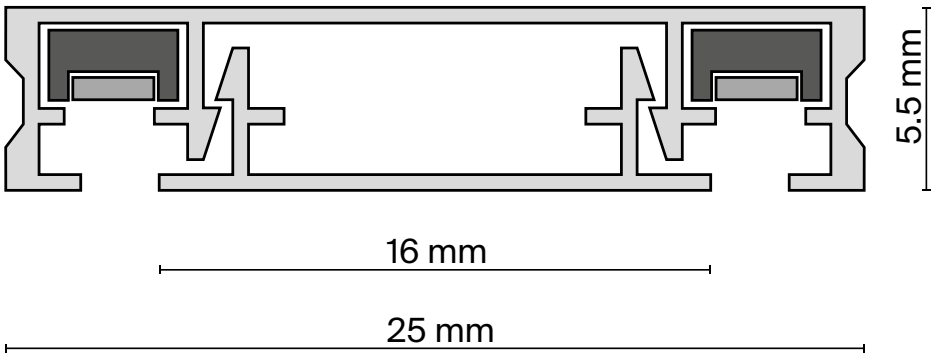
The track system is for internal use only in a non-aggressive environment free of aerosol particles and where a temperature range of 0°C to +50°C is guaranteed. The relative humidity should be equal to less than 80%. There are options of wall and ceiling mounting made of normally flammable materials. It is possible to install the device using cable pendants. The track is supplied in 1 and 2 metre segments. It is possible to cut segments and form configurations of various shapes using connectors. Since the entire system is built specifically for 48V of nominal voltage, it is essential to select the correct power source to light every bulb in the circuit.

It is crucial to note that the reserve power supply should not be less than 20% of theoverall power consumption for optimal performance. This ratio provides support for reliable, continuous use and prevents the luminaires from overheating.

**1.1 TECHNICAL DATA**

| Size | 1 m | 2 m |
|---|---|---|
| Surface mounted track model<br>Recessed mounted track model | TRX084-111B<br>TRX084-112B | TRX084-111W<br>TRX084-112W |
| Rated voltage | DC 48V | |
| Electrical class | III | |
| Mounting method | surface-mounted/recessed | |
| Ingress Protection Code | IP20 | |
| Climatic version | Boreal climate (4) | |
| Operating temperature | 0°C - +50°C | |
| Material | Aluminum | |

TRX084-111B
TRX084-111W
TRX084-112B
TRX084-112W

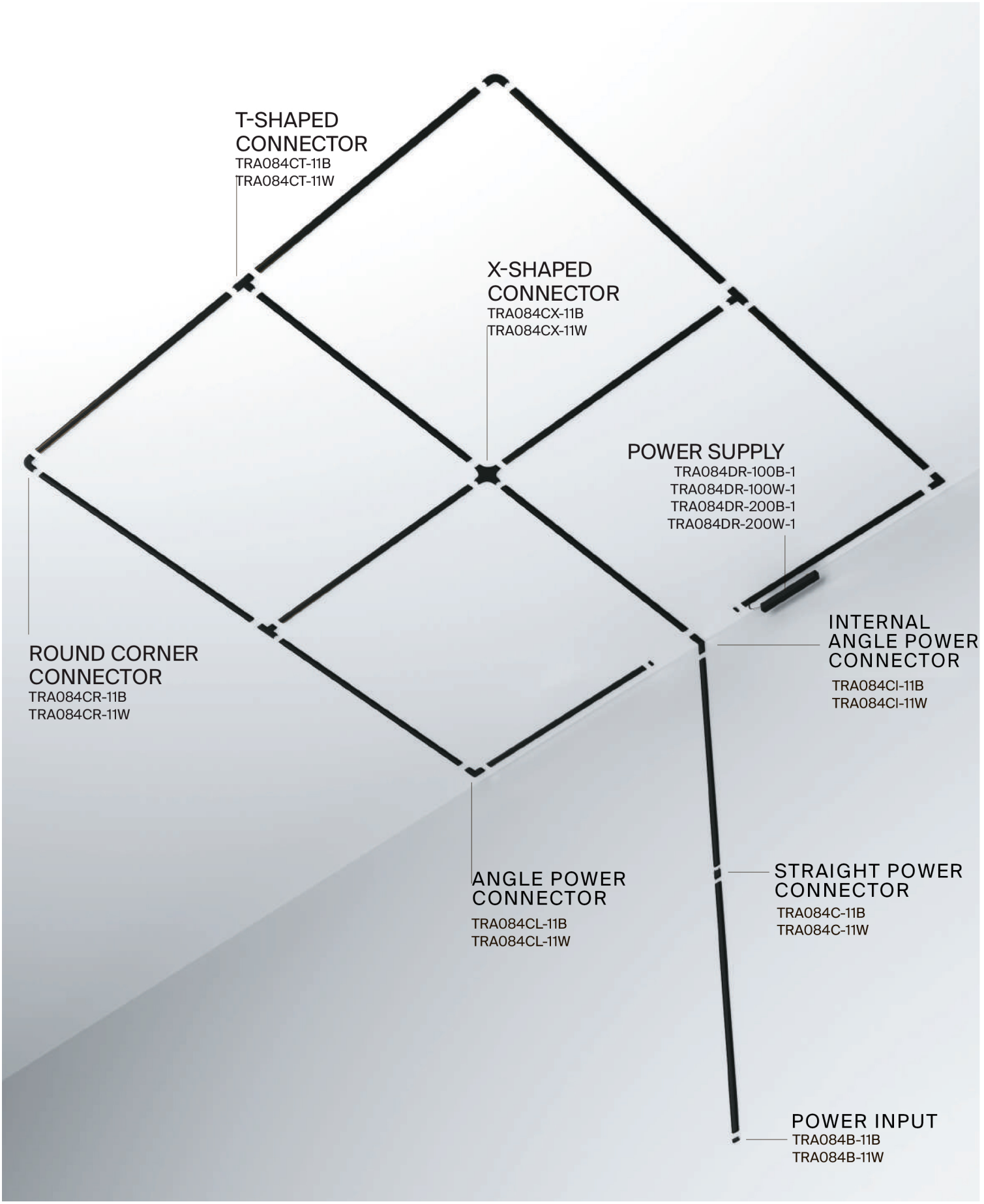


# 2. GENERAL RECOMMENDATIONS AND PRECAUTIONS

All installation and dismantling works must be carried out with a de-energised network only. Please contact a qualified electrician where necessary. Operation of the track without a power source is forbidden. Do not connect the track directly to the 230V 50Hz AC mains to prevent failure of the luminaires.
When building a track system, do not exceed the total current load of the selected power source keeping the power reserve of 20% in mind.
Do not use the product if the housing and/or supply cable insulation is damaged.
The device is intended for indoor use only.
Do not use the device in rooms with high humidity and high levels of dust or aerosol particles in the air.
Clean the device with a dry soft cloth with the mains power off. Do not use chemically aggressive cleaners.

# 3. SURFACE-MOUNTED MAGNETIC TRACK

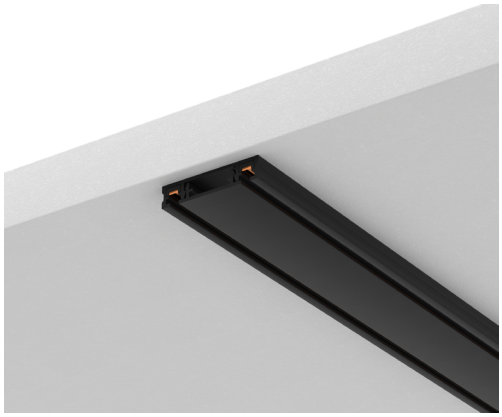
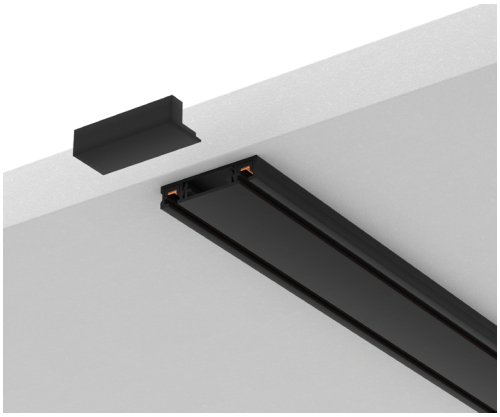
**3.1 SCHEMATIC FOR SURFACE-MOUNTED MAGNETIC TRACK**



# 3.2 ELEMENTS OF A SURFACE-MOUNTED MAGNETIC TRACK SYSTEM

| SYSTEM ELEMENT | COLOR | ARTICLE | SIZE |
|---|---|---|---|
| SURFACE-MOUNTED TRACK | BLACK | TRX084-111B | H5.5 X W25 X L1000 |
| | WHITE | TRX084-111W | H5.5 X W25 X L1000 |
| | BLACK | TRX084-112B | H5.5 X W25 X L2000 |
| | WHITE | TRX084-112W | H5.5 X W25 X L2000 |

PLUGS ARE NOT INCLUDED, THEY ARE PURCHASED SEPARATELY.

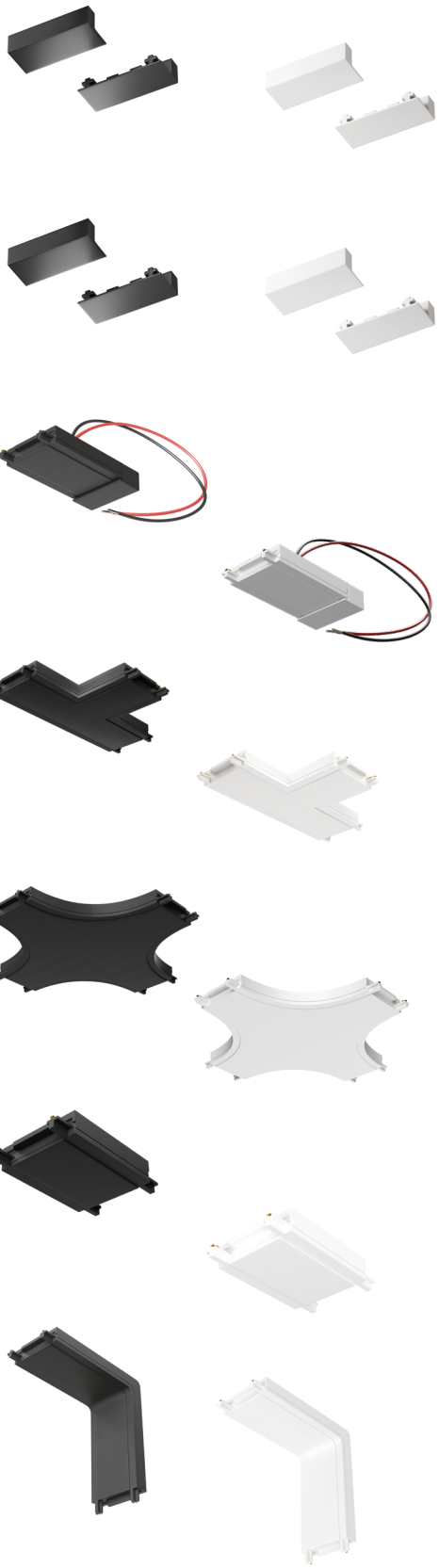





# 3.3 SYSTEM CONFIGURATION

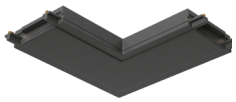
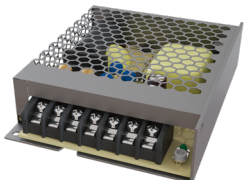
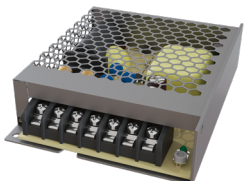
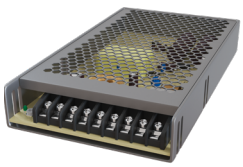
TRX084-111 / TRX084-112 KITS DIFFER FROM EACH OTHER IN THE NUMBER OF SCREWS FOR MOUNTING A TRACK OF 1 METRES AND 2 METRES.

| SYSTEM ELEMENT | COLOR | ARTICLE |
|---|---|---|
| MOUNTING KIT WITH PLUGS, 2PCS FOR TRX084 | ■ BLACK | TRA084B-11B |
| | □ WHITE | TRA084B-11W |
| MOUNTING KIT WITH PLUGS, 2PCS FOR TRX084 | ■ BLACK | TRA084EC-112B |
| | □ WHITE | TRA084EC-112W |
| SURFACE MOUNTED POWER SUPPLY | ■ BLACK | TRA084B-11B |
| | □ WHITE | TRA084B-11W |
| T-CONNECTOR | ■ BLACK | TRA084CT-11B |
| | □ WHITE | TRA084CT-11W |
| X-CONNECTOR | ■ BLACK | TRA084CX-11B |
| | □ WHITE | TRA084CX-11W |
| STRAIGHT CONNECTOR | ■ BLACK | TRA084C-11B |
| | □ WHITE | TRA084C-11W |
| INTERNAL CONNECTOR | ■ BLACK | TRA084CI-11B |
| | □ WHITE | TRA084CI-11W |



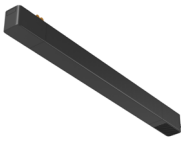
# 3.3 SYSTEM CONFIGURATION

TRX084-111 / TRX084-112 KITS DIFFER FROM EACH OTHER IN THE NUMBER OF SCREWS FOR MOUNTING A TRACK OF 1 METRES AND 2 METRES.

| SYSTEM ELEMENT | COLOR | ARTICLE | |
|---|---|---|---|
| ANGLE CONNECTOR | ■ BLACK | TRA084CL-11B |  |
| | □ WHITE | TRA084CL-11W |  |
| SEMICIRCULAR CONNECTOR | ■ BLACK | TRA084CR-11B |  |
| | □ WHITE | TRA084CR-11W |  |
| POWER SUPPLY MEAN WELL 48W, 100V | ■ GREY | TRX004DR-100S |  |
| POWER SUPPLY MEAN WELL 48W, 150V | ■ GREY | TRX004DR-150S |  |
| POWER SUPPLY MEAN WELL 48W, 200V | ■ GREY | TRX004DR-200S |  |
| POWER SUPPLY MEAN WELL 48W, 350V | ■ GREY | TRX004DR-350S |  |

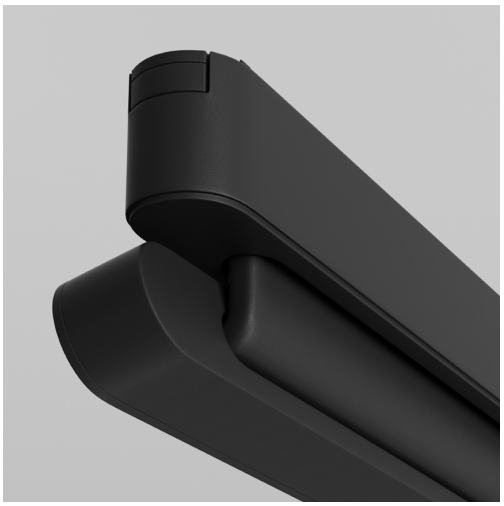
# 3.3 SYSTEM CONFIGURATION

| SYSTEM ELEMENT | COLOR | ARTICLE |
|---|---|---|
| RECESSED POWER SUPPLY 48W, 100V | ■ BLACK | TRA084DR-100B |
| | □ WHITE | TRA084DR-100W |
| RECESSED POWER SUPPLY 48W, 200V | ■ BLACK | TRA084DR-200B |
| | □ WHITE | TRA084DR-200W |
| TRACK ADAPTER | ■ BLACK | TRA084FC-11SB |
| | □ WHITE | TRA084FC-11SW |
| TRACK ADAPTER | ■ BLACK | TRA084FC-11LB |
| | □ WHITE | TRA084FC-11LW |





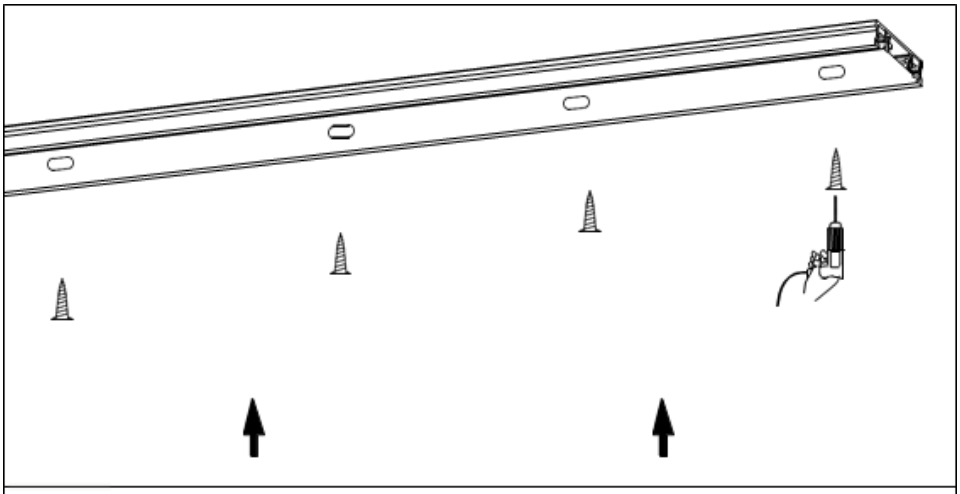


# 3.4 INSTALLATION PLAN FOR SURFACE-MOUNTING SUSPENDED MAGNETIC TRACK

1. Attach the track on the surface with self-tapping screws.
2. Install the connected power input into the track, through the prepared hole.
3. Install the plugs on the track.

1



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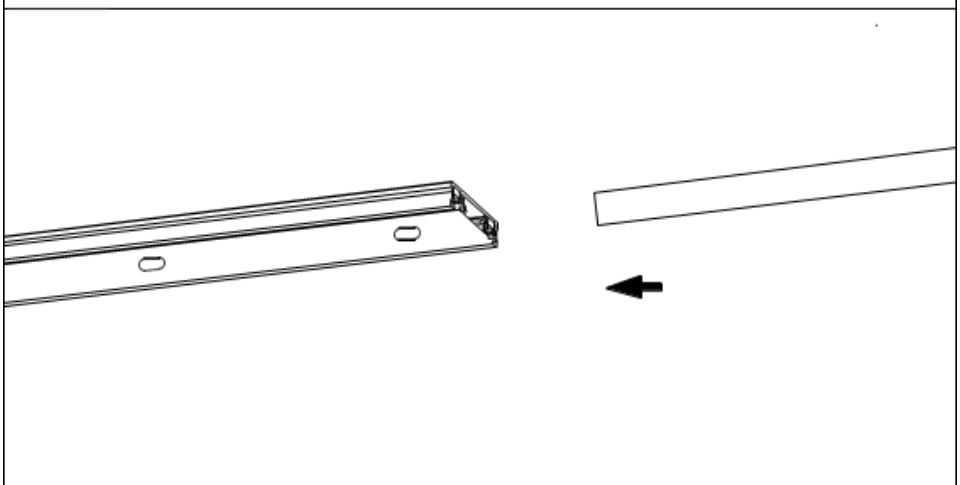

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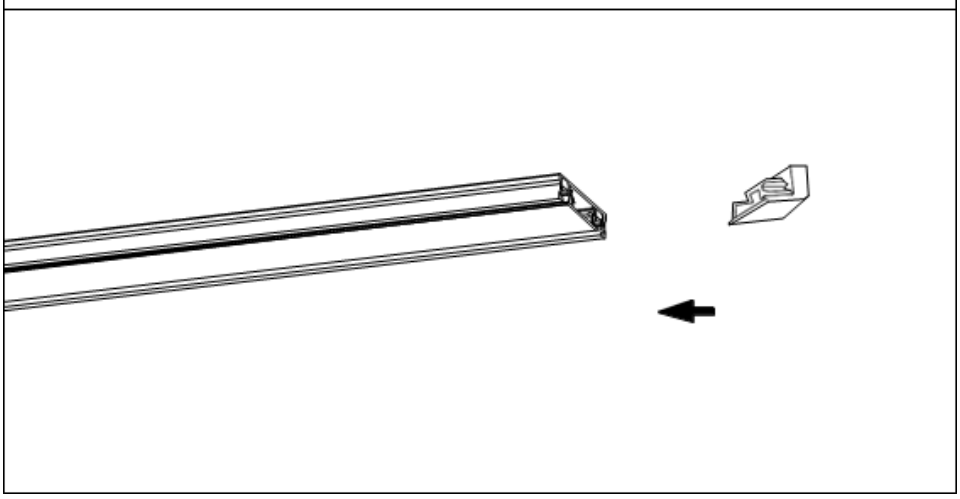
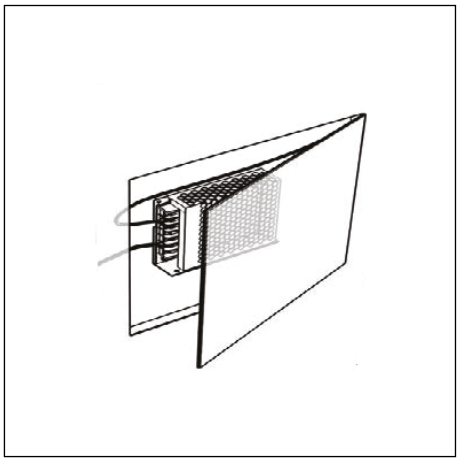


# 4. CONNECTING POWER TO THE MAGNETIC TRACK

**4.1 CONNECTING POWER TO THE MAGNETIC TRACK WITH A POWER SUPPLY**

1. Prepare a niche, place a driver in it and bring a 230V 50Hz power cable to it.
2. Connect the power supply to the network 230V 50Hz according to specifications. Power supply should have at least 20% redundancy. If one of the power supplies doesn't have enough power, use the power supply with more output or divide the circuit into multiple smaller ones, using one power supply for each.
3. Connect the power input of the track to the appropriate terminals of the driver (red wire to the V+ terminal, black wire to the V-terminal).
4. Install the connected power inlet to the track. Connection is carried out when the electrical network is switched off.
5. Install the luminaire into the track until it clicks.

1



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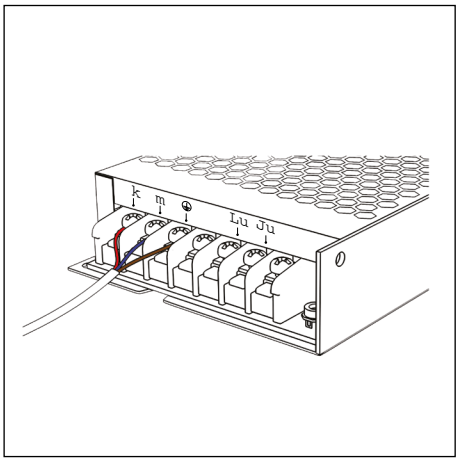


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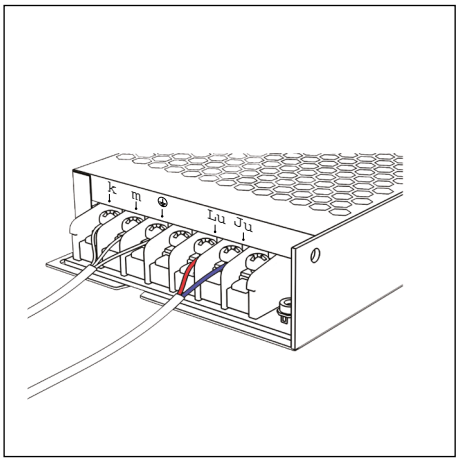


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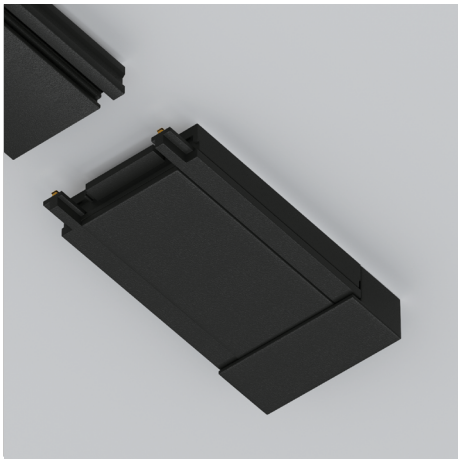

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# 4.2 CONNECTING POWER TO THE MAGNETIC TRACK USING A COMPACT POWER SUPPLY WITH THE ABILITY TO INSTALL DIRECTLY ONTO THE TRACK

When using this power supply, there is no need for power input. These sources are selected in terms of power in the same way as blocks recessed into niches and require 20% of the total load of the connected luminaires.

1. Connect the track power supply to the mains according to the marking on the input cable (G –ground, L–phase, N –neutral). The connection is carried out when the electrical network is switched off.

2. Place the luminaire connection in the track housing.
3. Install the luminaire in the track until it clicks.

1

2

3

# 5. RECOMMENDATIONS

1. When planning the placement of system elements, be sure to include an inspection hatch in the project to service the driver.
2. Do not deform the track during transport and installation.
3. When cutting track, use professional equipment, or use the services of an organisation providing such services.
4. Through 1 power input, you can connect luminaires with a maximum total power of 400W and a track no longer than 20 metres. If the specified power or length is exceeded, it is necessary to connect subsequent sections through a new power input.
5. The power input can be installed in any section of the track, guided by rule, that one power input feeds no more than 20 metres of the track.
6. Be extremely precise when laying out and installing the wall brackets. If you move them out of the path of the track, you may have difficulty installing it.

# 6. TROUBLESHOOTING

| Malfunction | Cause | Troubleshooting |
|---|---|---|
| The luminaire does not work | No contact in joints | Install the luminaire on the track until the adapter is in full contact with the current-carrying cores |
| | | Inspect the input cable connection terminals, the connection of the power input terminals to the track, and other connections |
| | Luminaire failure | Contact the seller for warranty service or replacement |
| The light is flashing or dimly lit when off | To control the lighting circuit, a switch with key backlighting is installed, or a motion (light) detector is used | Replace the switch with a model without key backlighting, or which has an additional resistor in its design. Use motion (light) detector only with relay output |
| Unstable glow, flickering, extraneous sound | A dimmer is installed in the power circuit | Remove the dimmer from the circuit, replace it with a switch |
| | Faulty power supply | Contact the seller for warranty service or replacement |

**7. STORAGE**

The goods are stored in packaging indoors in a non-aggressive environment. Storage temperature in the range from -20°C to +70°C and relative air humidity not more than 95%. Do not expose directly to moisture.

**8. TRANSPORTATION**

The packaged product is suitable for transportation by sea, rail, road and air.

**9. DISPOSAL**

Do not dispose the product with the regular household waste! Products must be disposed according to the directive on electrical and electronic devices at local collection points for such devices!

**10. CERTIFICATION**

Safety Standards, Regulations, Requirements EC.

**11. WARRANTY**

The warranty for the product is 24 months from the date of sale, which is established per the sale documentation.

Warranty service is provided if the malfunction occurred due to the defect in workmanship, and also subject to all the rules of operation, transportation and storage given in this manual.

The warranty is not valid in the following cases: if the product has been used for purposes that do not correspond to its intended use; the defect arose after the transfer of the goods to the consumer and is caused by incorrect or careless handling, non-compliance with the requirements given in this manual. And also in cases of force majeure, including: fire, flood, high-voltage discharges and other natural disasters, accidents and deliberate actions of third parties that caused the product to malfunction.

**12. MANUFACTURER**

Maytoni GmbH, Feldstiege 98, 48161 Münster, Germany

**13. IMPORTER**

Maytoni GmbH, Feldstiege 98, 48161 Münster, Germany
www.maytoni.de
Developed in Germany.
Made in China.
No expiry date.

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