

DREAMGLASS® – INSTALLATION GUIDE

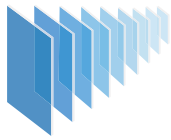
GENERAL NOTES

- . Each PD-LH can withstand a maximum of 7 m² of DreamGlass® area.
- . Installation service must be performed by a qualified electrician who has read and understood this document.
- . DreamGlass® panels require a power drive (PD-LH) because they operate between 60–80 V AC.
- . All power drives are previously programmed by Dream Glass with the appropriate voltage needed for each order.
- . Power drives should be installed in an accessible spot in case fuse needs to be replaced.
- . Metal frames which may be in contact with electrical cables should have an earth connection (ground lead).
- . Before energizing the power drive, make sure to test the resistance reading between the DreamGlass® connection point and metal frame, making sure the resistance reading is infinite. If resistance reading is not infinite, check for short circuit and properly insulate from metal frame.
- . DreamGlass® uses approximately 8 W/m² when panels are activated (clear state).
- . Note: Do not substitute fuse with a higher rating model. DreamGlass® panels operate properly with a given fuse rating (supplied with each power drive). Substitution of fuse with a higher rating can cause irreversible damage.
- . DreamGlass® panels are delivered with electrical cables for each connection point; total diameter of each cable is 2.5 mm. Should the length of these cables not be long enough, use 1.31 mm² (16 AWG) copper cables which have weather resistant insulation properties.
- . DreamGlass® panels have hot melt molds which encapsulate electrical connections. Do not pull on electrical cables as they could break and therefore interrupt the electrical flow. Should these be accidentally damaged, please contact Dream Glass.
- . Under no circumstance should the power drive be opened. The warranty will not be applied should any of the above not be followed.
- . Do not use any kind of silicone other than those provided by Dream Glass, otherwise the product will be drastically and irreversibly damaged. Warranty will not cover the use of other silicones. Refer to General Sales Terms & Conditions.
- . Please consult with Dream Glass for any advice or doubts (+34 91 658 4245).

PD-LH TRANSFORMER SPECIFICATIONS



| | |
|------------------------------|--|
| Input voltage: | 110 - 125 V AC or 220 - 240 V AC 50 - 60 Hz |
| Output voltage: | Between 60 – 85 V AC |
| Nominal output power: | 120 VA |
| Input protection: | (1 A 250 V) fuse and varistor |
| Output protection: | Immediate disconnection due to excess consumption or short-circuit |
| Dimensions (LxWxH): | 120 mm x 90 mm x 80 mm |
| Net weight: | 1.25 kg |



PD-LH TRANSFORMER CONNECTIONS

Date: 12/09/2017 rev. 01



Diagram 1. Terminal connections of PD-LH transformer.

EACH PD-LH CAN WITHSTAND A MAXIMUM OF 7 m2 OF DREAMGLASS® AREA.

Installation can be done following 3 steps:

Step 1. Connecting the PD-LH to DreamGlass® panels.

With the help of a flathead screwdriver, connect the electrical cables of the DreamGlass® panel to the terminal connections which are indicated on the power drive: OUTPUT/SALIDA (see Diagram 2).

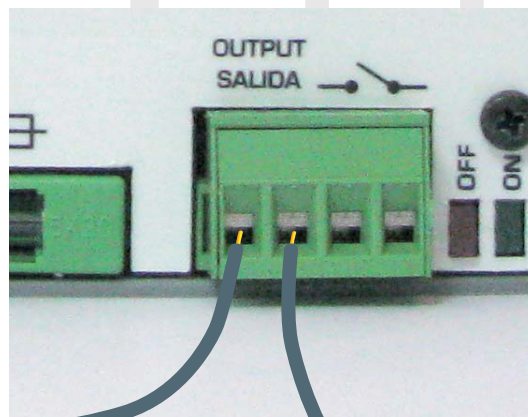


Diagram 2. Terminal connections for DreamGlass® panels.

Important notice:

The cables which come with each DreamGlass® have the same color. However, you may connect either one to either side of the power drive.

In the event of connecting various panels to 1 power drive, the panels must be connected in parallel. (Diagram 3.1 or 3.2)

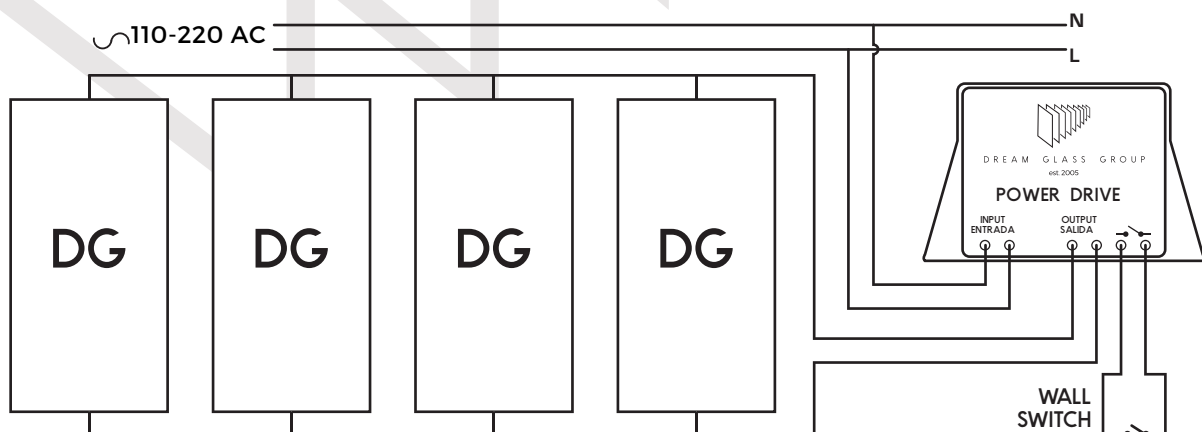
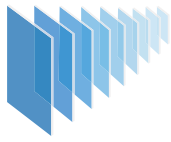


Diagram 3.1 Parallel connection.



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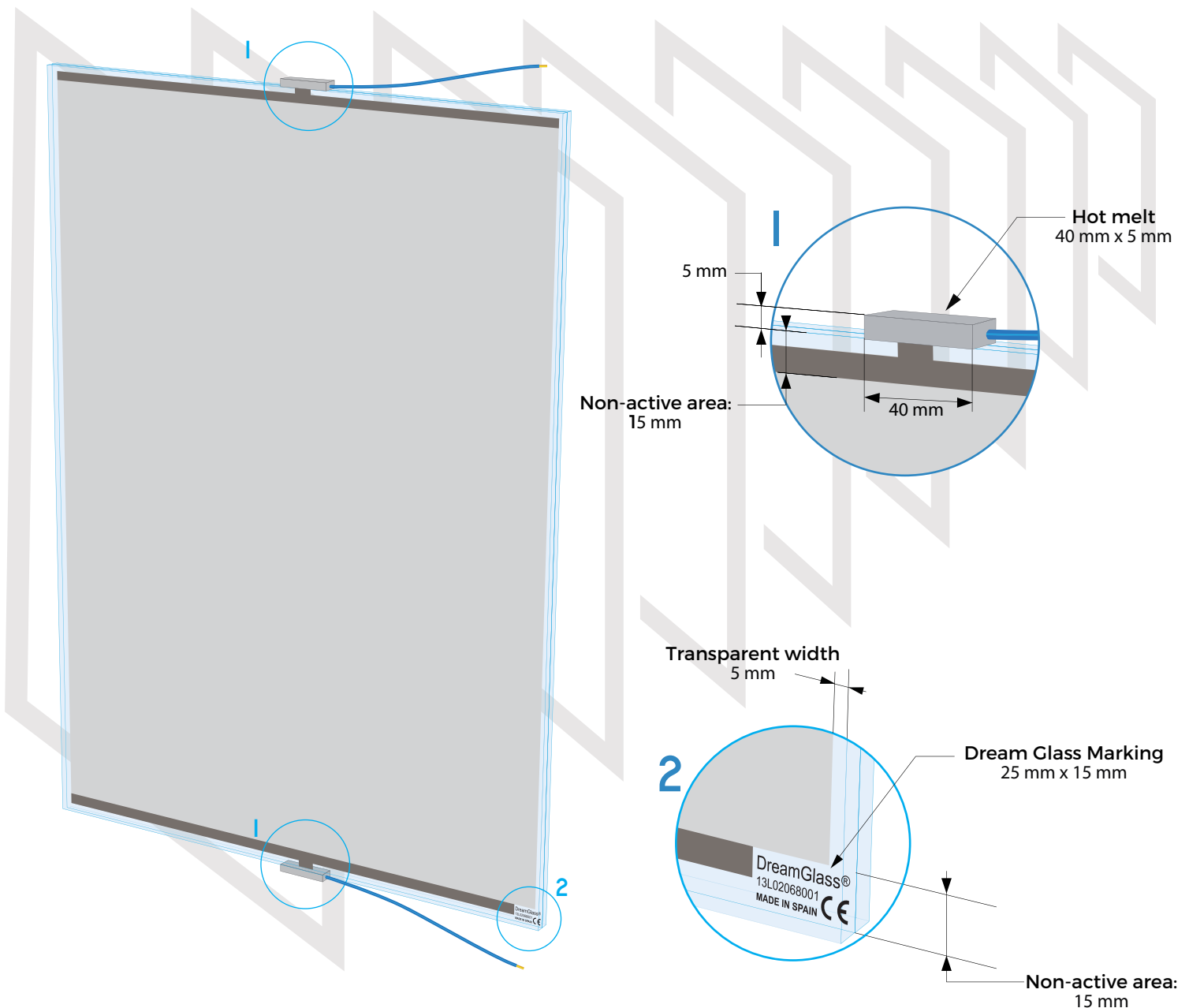
📍 Calle Cañada, 15
Paracuellos de Jarama
28860 - Madrid - Spain
📞 +34 91 658 42 45
📠 +34 91 658 26 56
✉ info@dreamglassgroup.com
🌐 www.dreamglassgroup.com

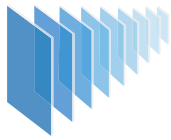
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DreamGlass® panels have electrical connections which stand out approx. 5 mm more than the border of the glass panel.

All DreamGlass® panels are manufactured with a DreamGlass® identification mark (25 mm X 15 mm), which indicates serial number, brand, origin and CE marking as per NORM UNE-EN 14449:2006 and Dream Glass S.L. Authenticity Policy.

ILLUSTRATION OF ELECTRICAL CONNECTIONS PLACED ON 2 OPPOSITE SIDES *Standard option for most installations





ILUSTRATION OF ELECTRICAL CONNECTIONS PLACED ON 1 SIDE ONLY

*This option is specified for humid/wet room installations. However, Dream Glass will conduct an initial study to determine this.

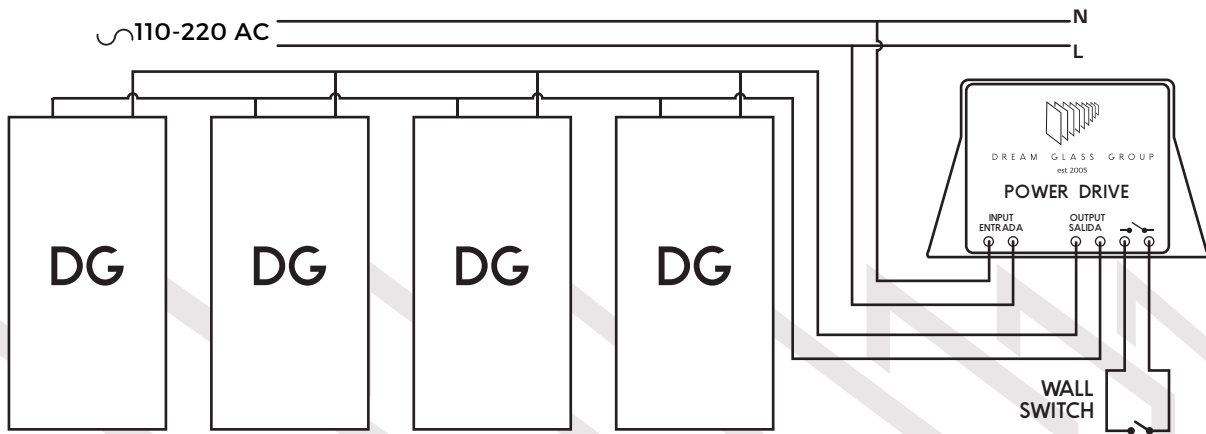
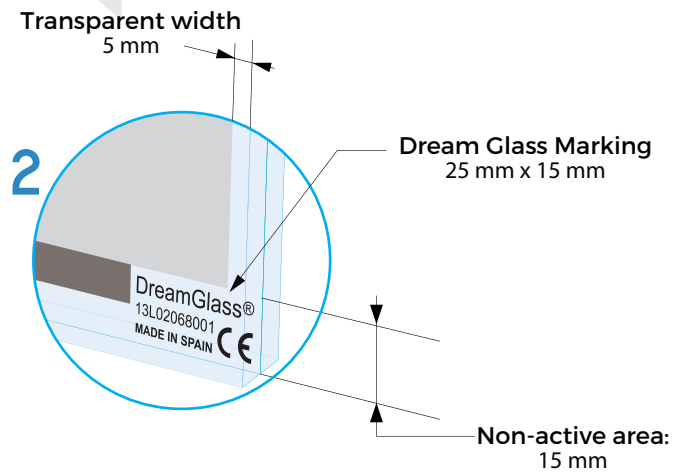
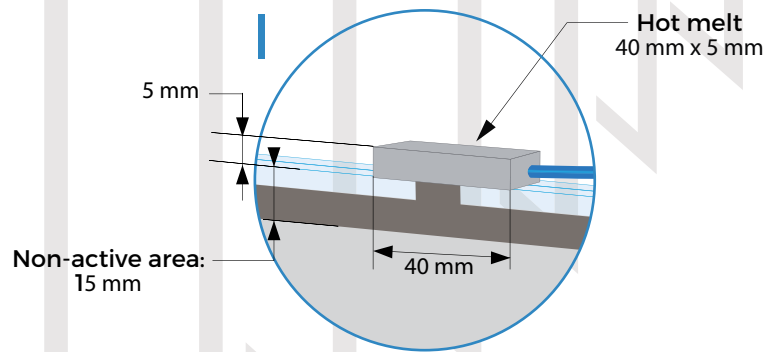
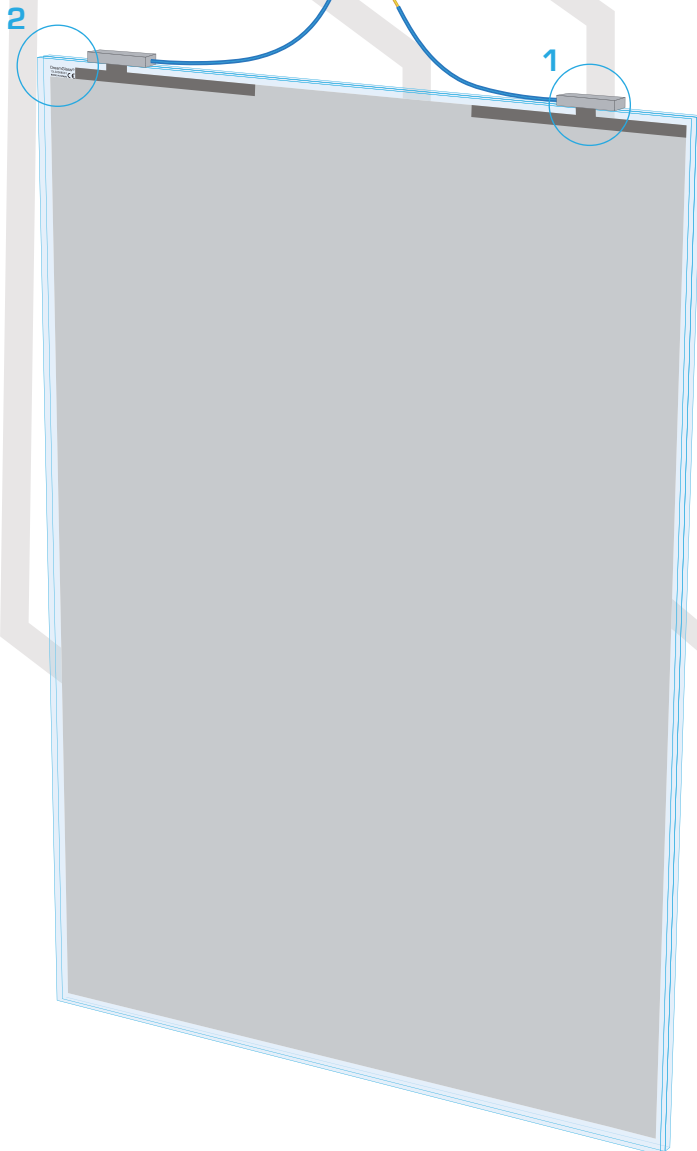
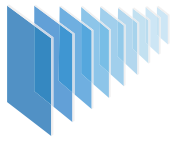



Diagram 3.2 Parallel connection.





Step 2. Connecting to Switch.

Use a flathead screwdriver to connect the switch cables to the terminal connections which are indicated on the PD-LH:  (see Diagram 4).

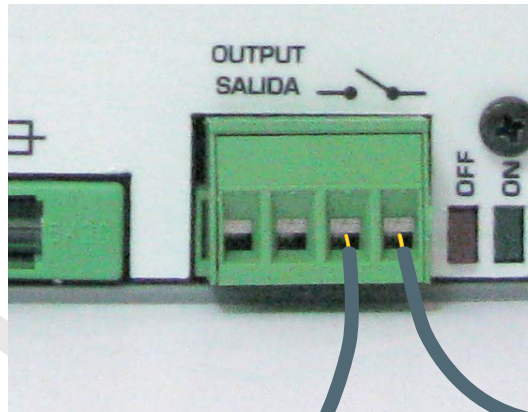


Diagram 4. Terminal connections for Switch.

To activate the power output of the transformer, use a unipolar switch. Make sure the switch and power drive form a single circuit. Output is available when the switch closes the circuit on the power drive.

NOTE: The designated switch that will be connected to the PD-LH should not operate other devices.

Step 3. Connecting to the mains (Electrical Grid).

Use a flathead screwdriver to connect mains cables to the terminal connections which are indicated on the PD-LH:

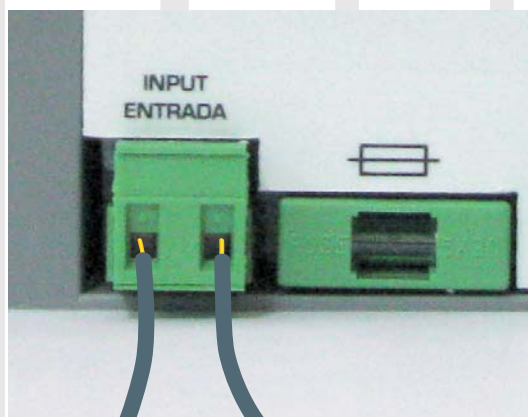


Diagram 5. Terminal connections for mains (Electrical Grid).

Once mains cables are connected to the terminals of the PD-LH, plug them to Electrical Grid (subject to geographic location, Electrical Grid will be either 110 – 125 V AC or 220 – 240 V AC 50 - 60 Hz).

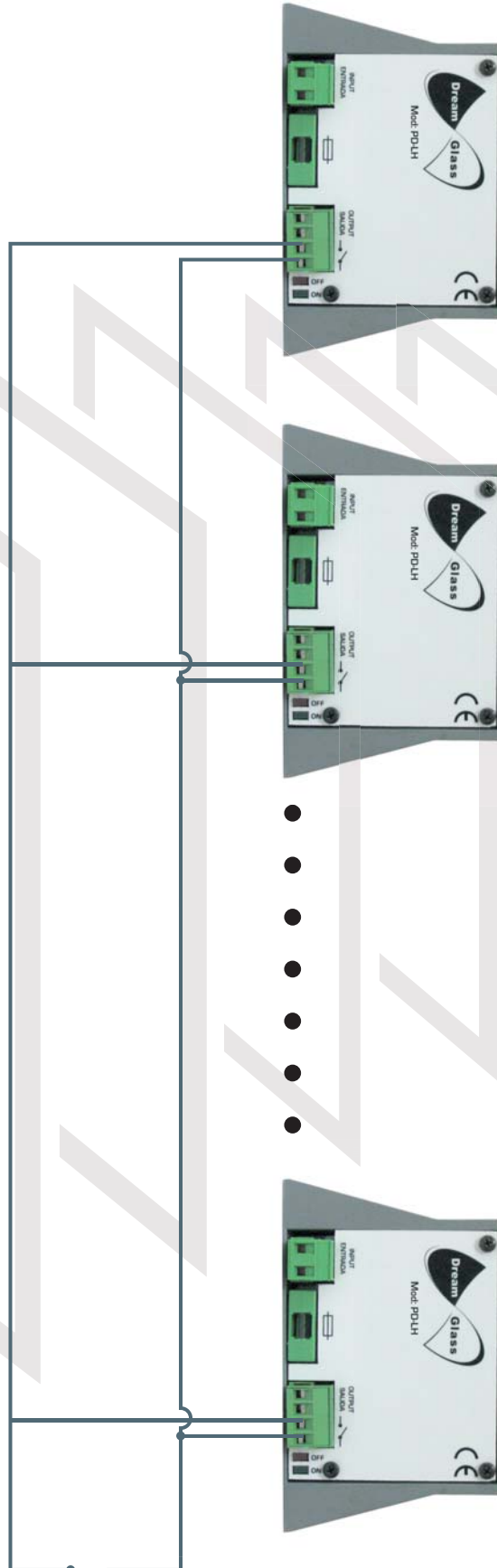


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📍 Calle Cañada, 15
Paracuellos de Jarama
28860 - Madrid - Spain
📞 +34 91 658 42 45
📠 +34 91 658 26 56
✉ info@dreamglassgroup.com
🌐 www.dreamglassgroup.com

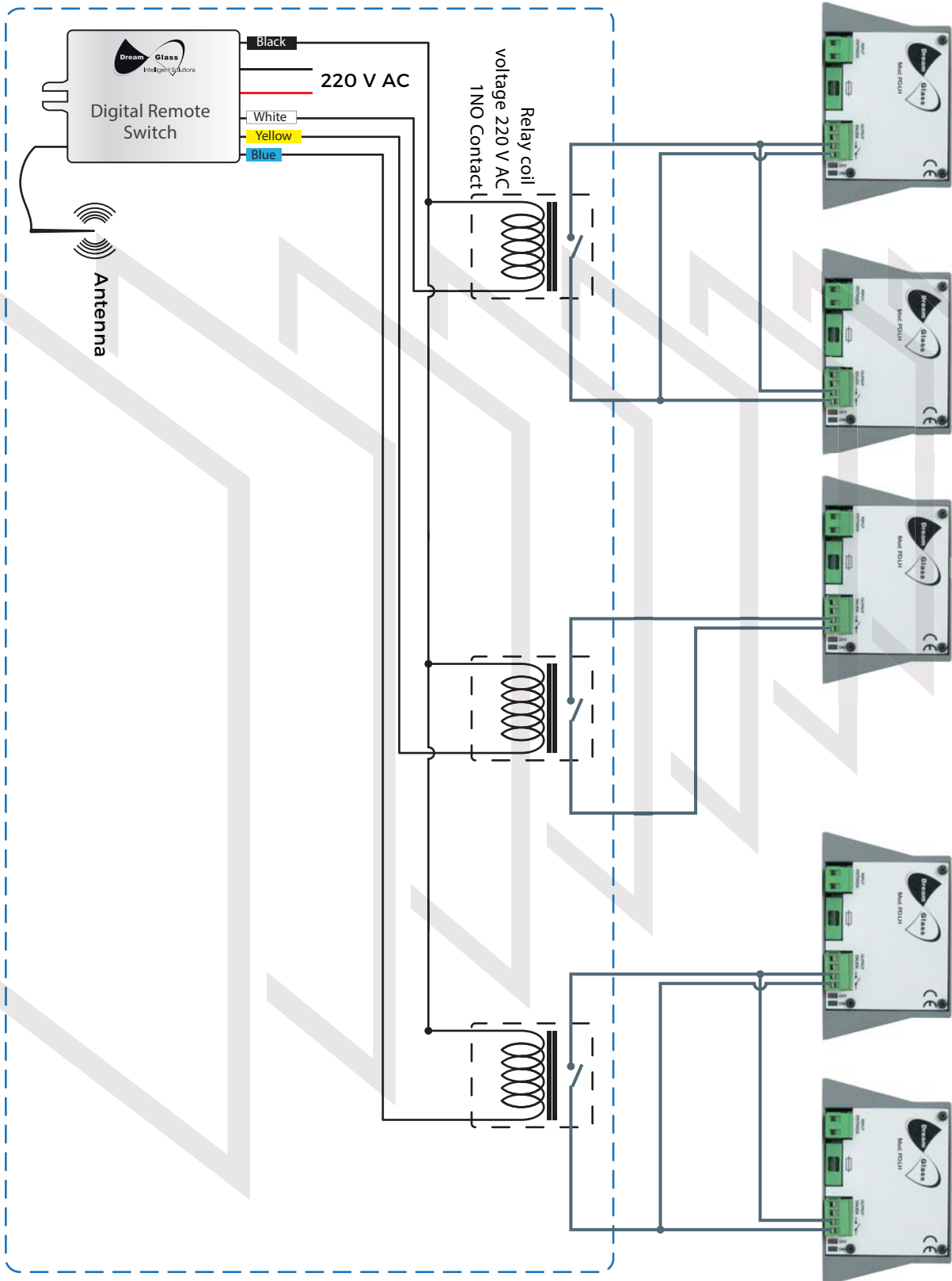
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CONNECTING VARIOS PD-LH TO A SINGLE SWITCH





PD-LH CONNECTION TO REMOTE CONTROL (SUPPLIED BY DREAM GLASS)





TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSES | SOLUTION |
|--|---|--|
| The panel does not turn on (turn transparent) and there is no indicator light on the power drive. | Electrical Grid is giving no power to power drive. | Verify that there is input voltage at the input of the power drive and that it is in the appropriate range of power drive. |
| | The fuse is blown. | Possible short circuit or earth fault on the power drive output wiring. Check the wiring and replace the fuse. |
| The panel does not turn on (turn transparent) and there is a RED indicator light on the power drive. | The output of the power drive has been interrupted by the protection circuit. | Possible short circuit or earth fault on the power drive output wiring, the wiring should be checked and power drive should be reset. |
| | The output of the power drive has been interrupted by the protection circuit. | The working capacity of the power drive has been exceeded. Verify that the total area of the panels activated by the power drive does not exceed the maximum operating capacity (7 m ²). |
| The panel does not turn on (turn transparent) and there is a GREEN indicator light on the power drive. | There is a break in the output wiring to the panel. | Check the output wiring of the power drive and measure if current is reaching the panel. |
| The panels turns on but there are patches/areas where there is low transparency (excess haze) and there is a GREEN indicator light on the power drive. | Not enough voltage is reaching DreamGlass® panel. | Check output wiring of power drive and particularly connection points or joints throughout installation. |