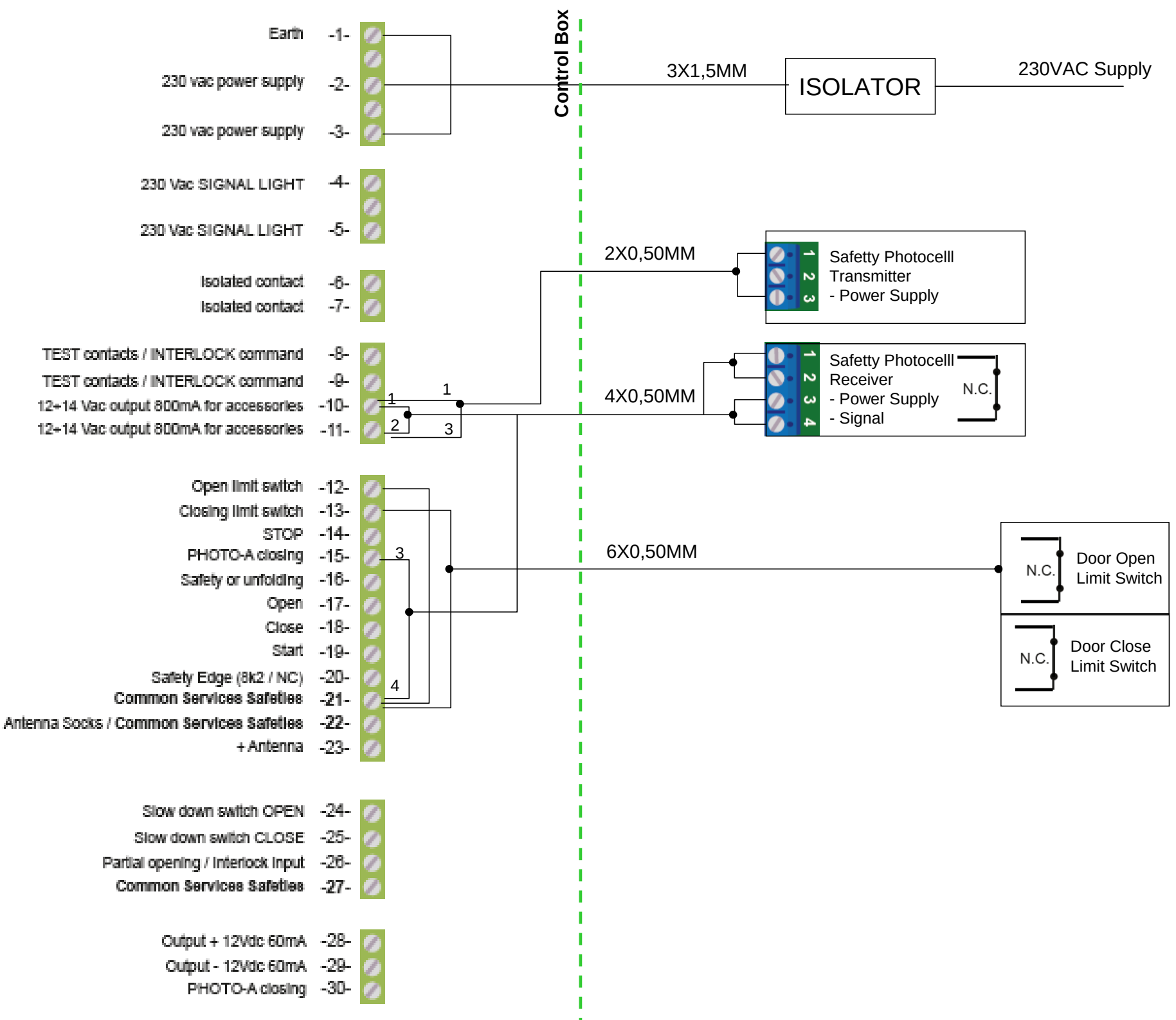
RolliZIP ATEX – Inverter Control Panel START S12

Wiring Diagrams

WARNING
On ATEX installation all cables must go directly into control panel – No interruption and external junctions allowed.

Main connections are :
1. Power supply IN
2. Motor OUT
3. Photocell Receiver IN
4. Photocell Transmitter IN
5. Limit Switch group IN
6. Additional Open Button IN

Control box enclosure is factory configured with :
Nr.7 Input holes with ATEX cable gland
Nr.5 Input extra holes with ATEX stopper



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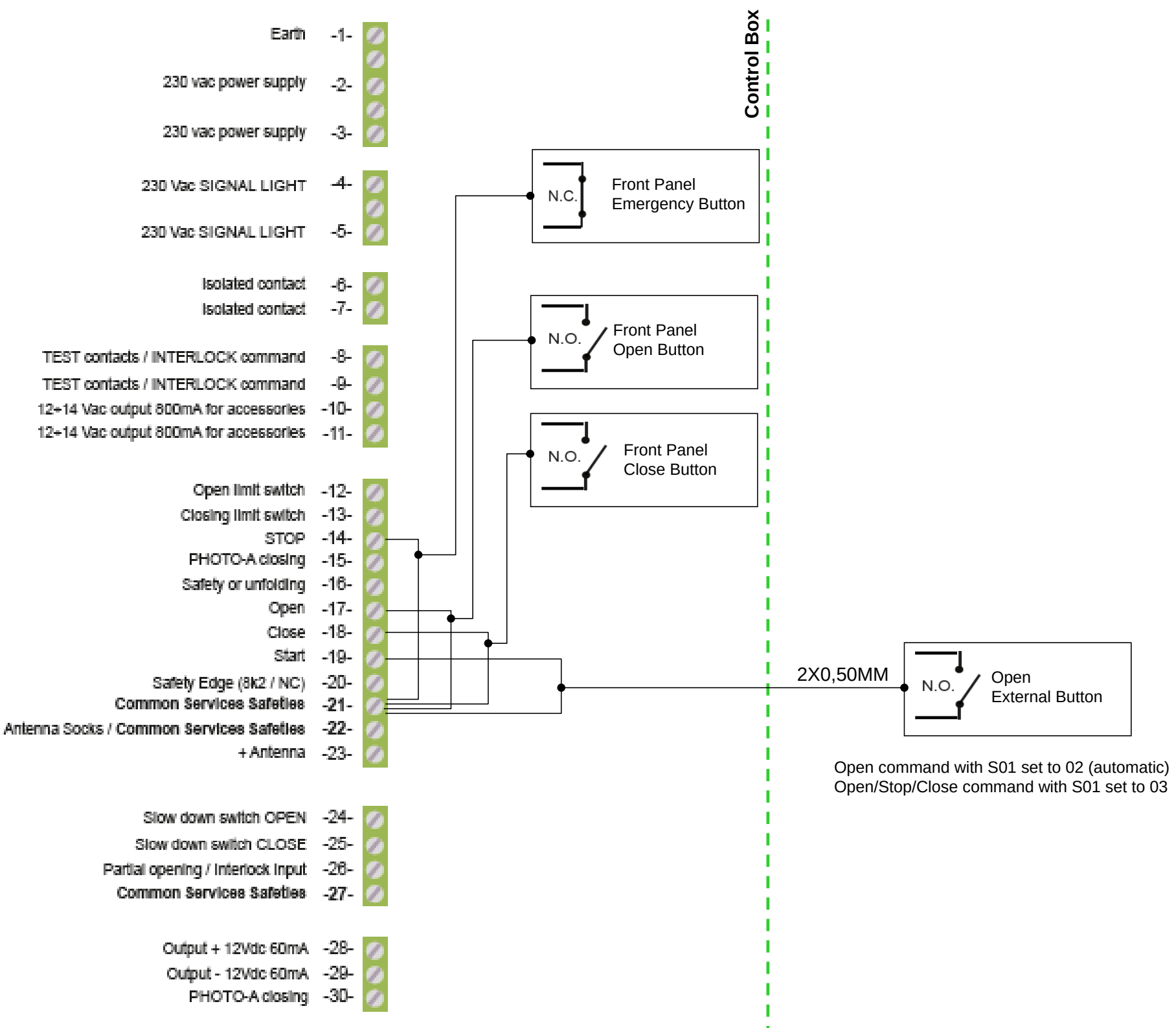
Nota : disegno indicativo non costituisce termini contrattuali



Open command with S01 set to 02 (automatic)
Open/Stop/Close command with S01 set to 03

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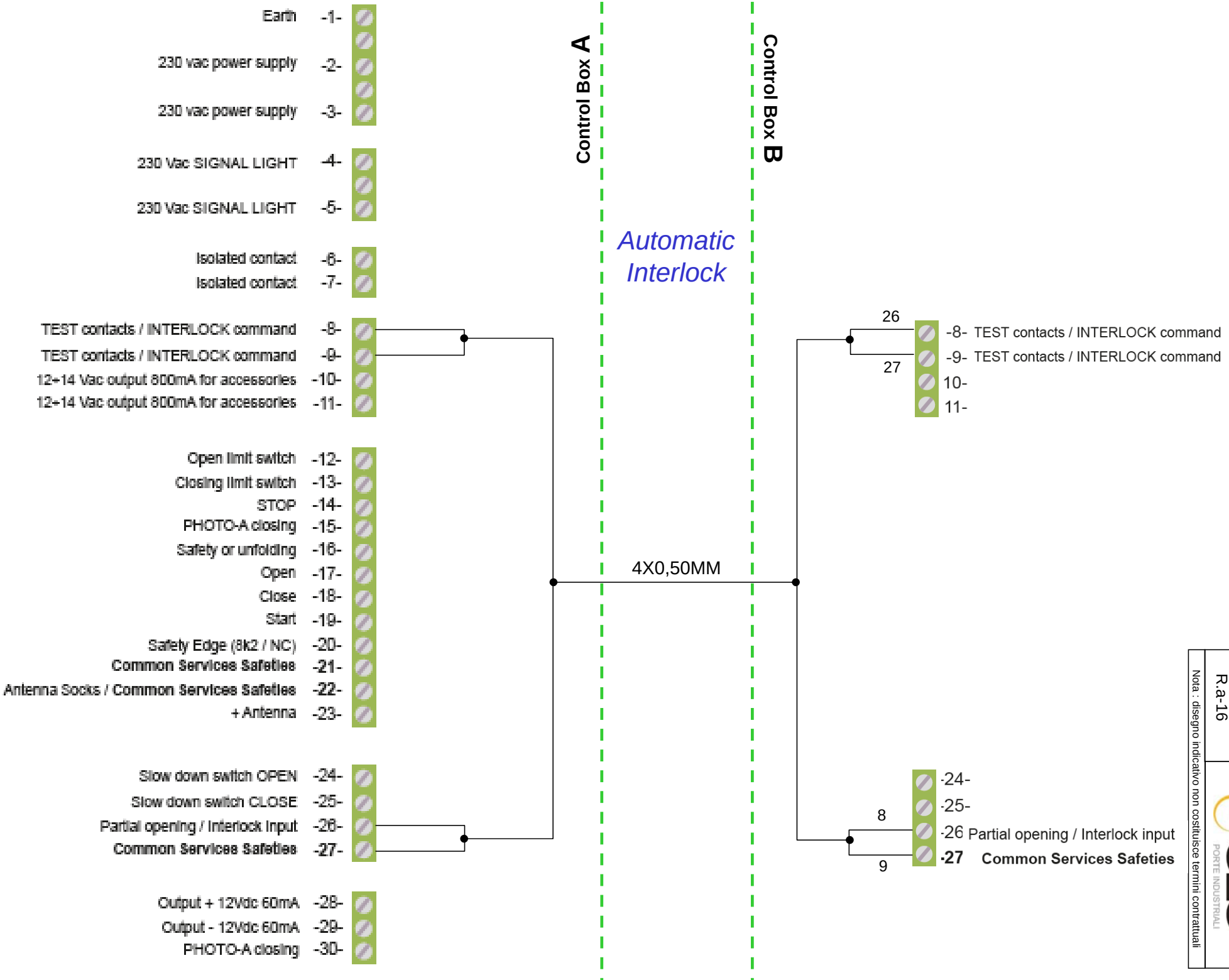

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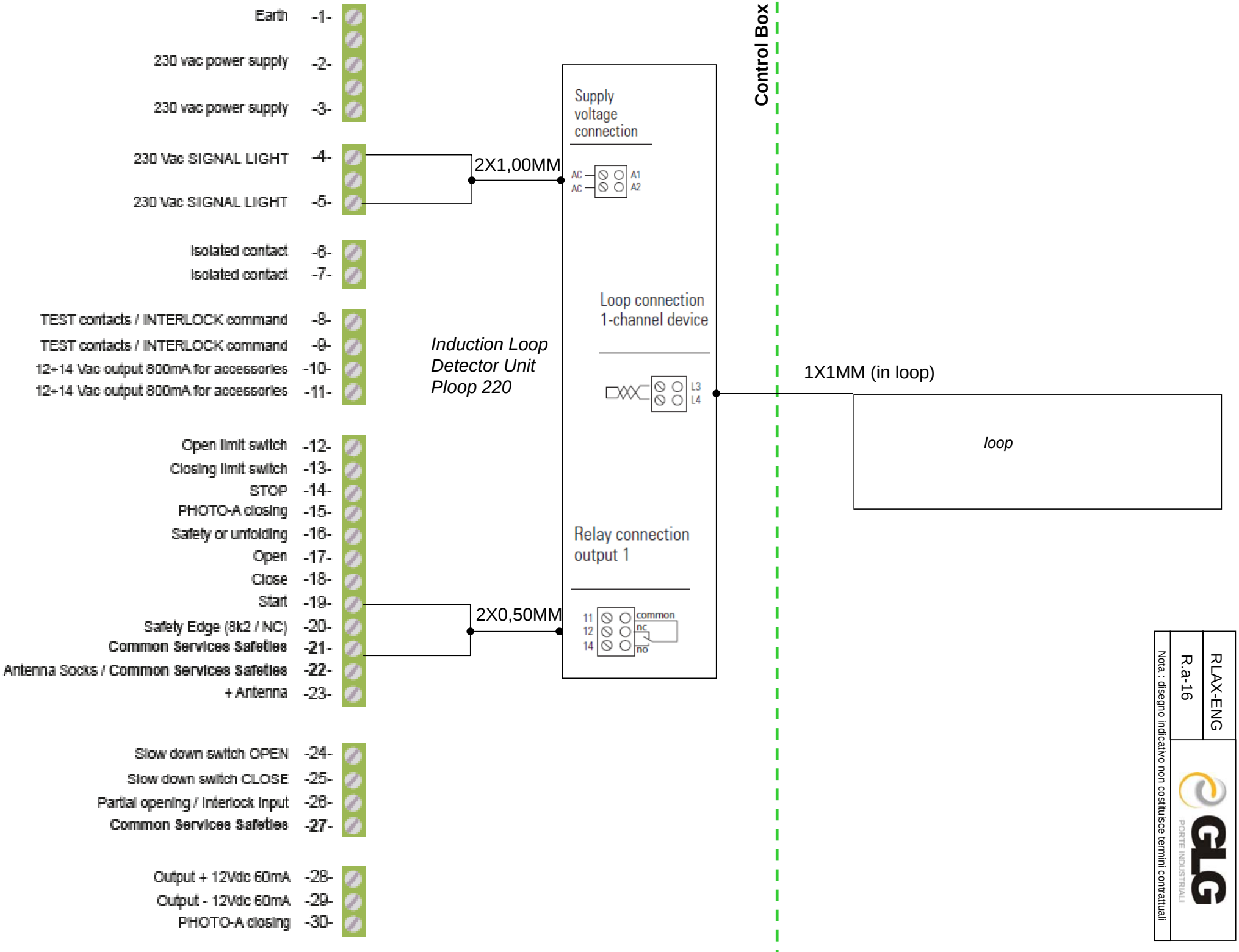

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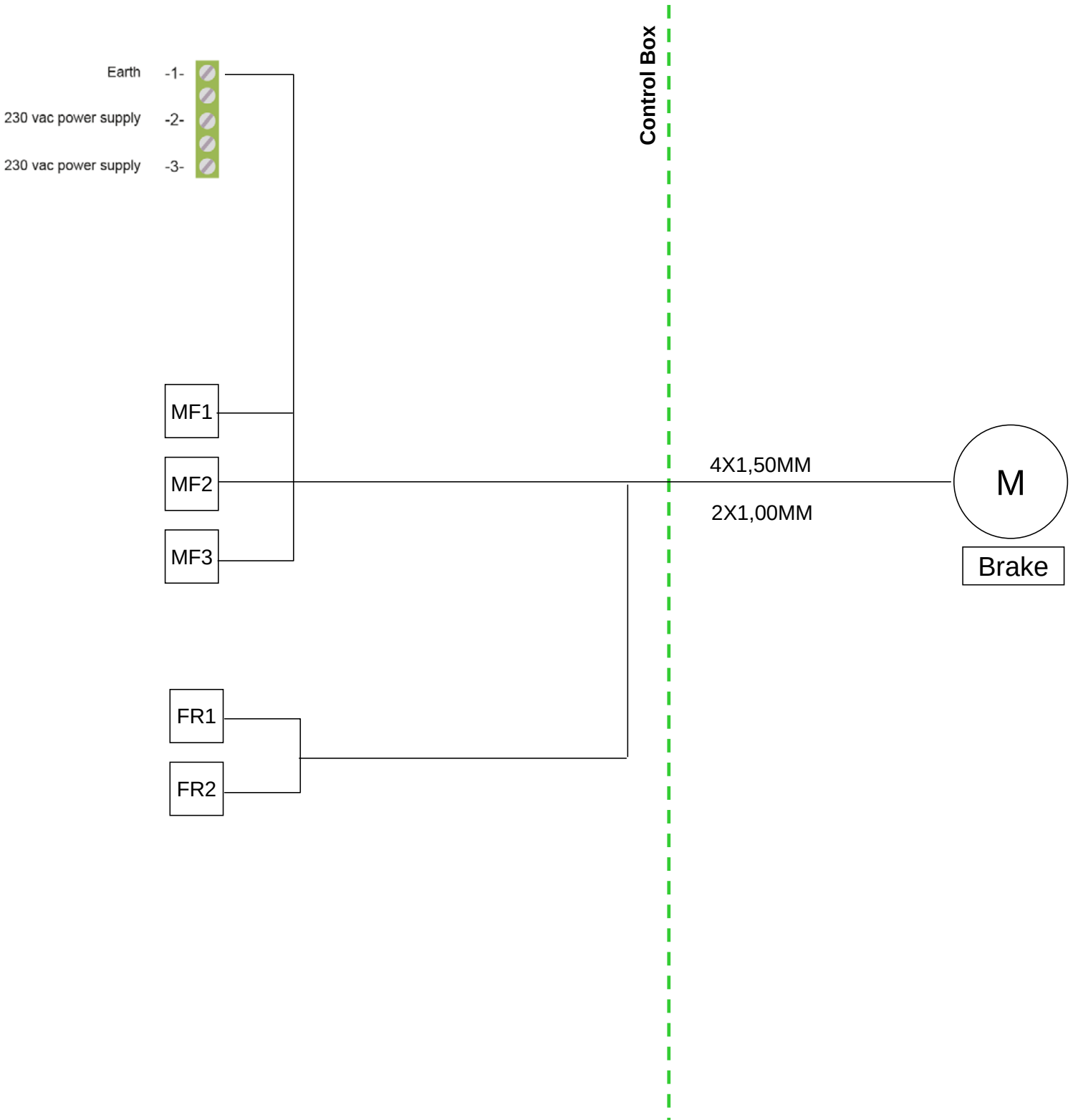

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ROLLIZIP / ROLLIGO - INVERTER Control Panel START S12

Quick reference guide to initial steps :

Step 1 – base wiring
Following the instruction of the Start S12 manual wire the door components into control box :
•Safety Photocells (down the uprights)
•Open / Close limit switches
•Motor
•Brake
•Power Supply (220V monophase)

Step 2 – base parameters and Motor direction check
1. Place the curtain down (1 meter below the opening approx) using manual long handle (BE SURE THAT CONTROL PANEL IS OFF)
2. Switch on control panel and enter the programming menus
3. Set parameter S22 to 00 (Safety Edge Input not used in this configuration)
4. Set parameter S08 to 04 (Automatic motor current management)
5. Set parameter S20 to 00 and S21 to 00 (slowdown limit switch not used in this configuration)
6. Set parameter S17 to 00 (upper canopy photocell not used in this configuration)
7. Check the photocells (safety). If not correctly aligned door open but not close
8. Using R Function run the motor to move the curtain. Function R03 Open – Function R04 Close. If the curtain move in the opposite direction swap two of the phases of the motor connection.

Step 3 – Limit Switch adjustement
1. Adjust limit rotating camme

For detailed function and cabling described above please refer to the attached manual.

For other function and accessories please refer to the attached manual.

ROLLIZIP – Inverter Control Panel START S12

Parameters Setting

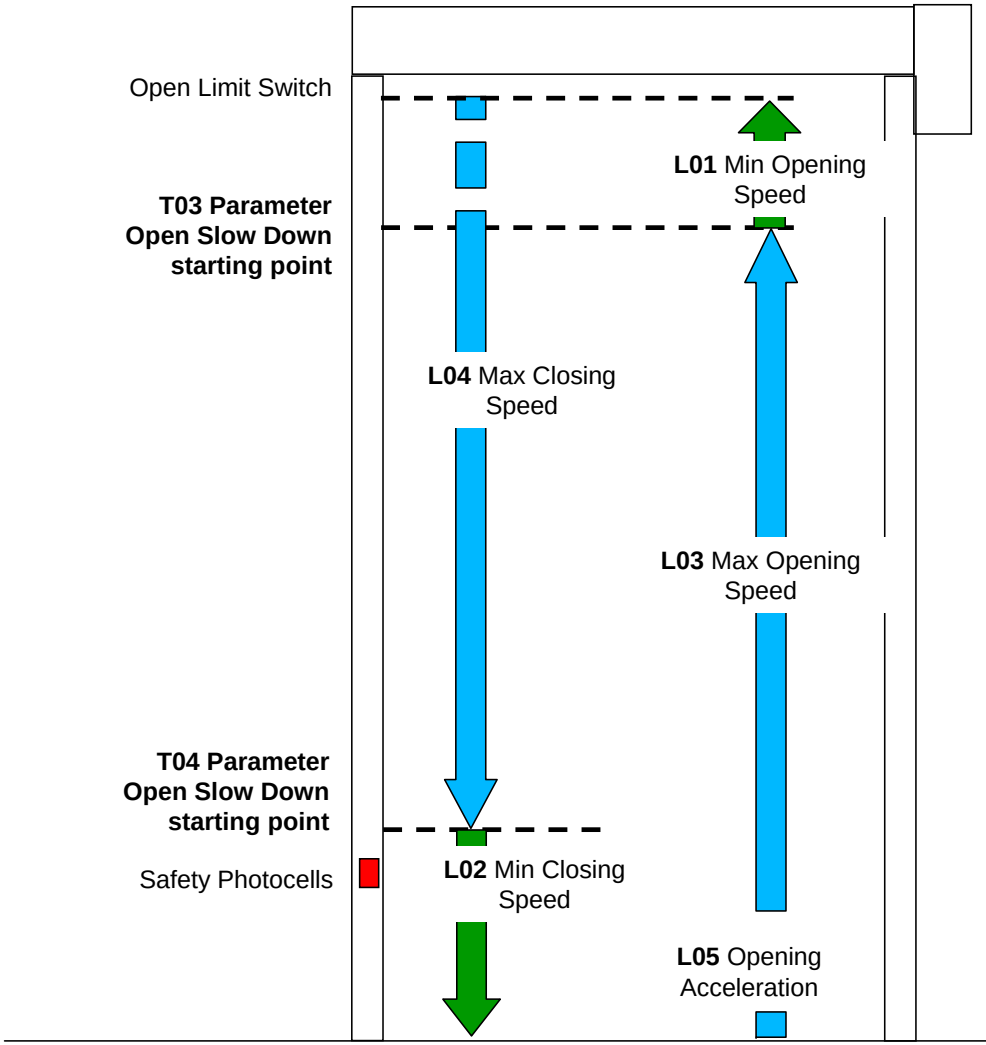
Power Current Level
In case of big doors or small/medium doors with high open speed and initial acceleration, raise up the value of the power current given from panel to motor :
S08 (standard 02) **SET TO 04**
L09 : (standard 5,0) **SET TO 10,0**
L10 : (standard 7,0) **SET TO 12,0**
NOTE :

Slow Down
It is important to adjust open and close slow down to have a smooth operation :
Open Decelaration : **L07** **SET TO 25**
Open min speed : **L01** **SET TO 10**
Close Deceleration : **L08** **SET TO 20**
Close min speed : **L02** **SET TO 10**
Use T03 and T04 parameter (value in second) to set deceleration starting points

Opening acceleration
In case of big door do not raise up too much the opening acceleration :
Opening acceleration : **L05** **SET TO 10**

Maximum Speeds
Opening Speed (max) can be raise up with **L03** parameter. If the door automatically slow down when opens (with parameter S08 set to 04) it means that the value is too high.
Closing Speed (max) should be leave to a slower level for safety. The stanard **L04** parameter is set to 40. Decrease to 30 if necessary.

Photocell Detection
If curtain may blow into photocell beam :
Photocell Inibition : **T11** **SET TO starting point**
With this setting when curtain reach time position automatically switch off photocell detection



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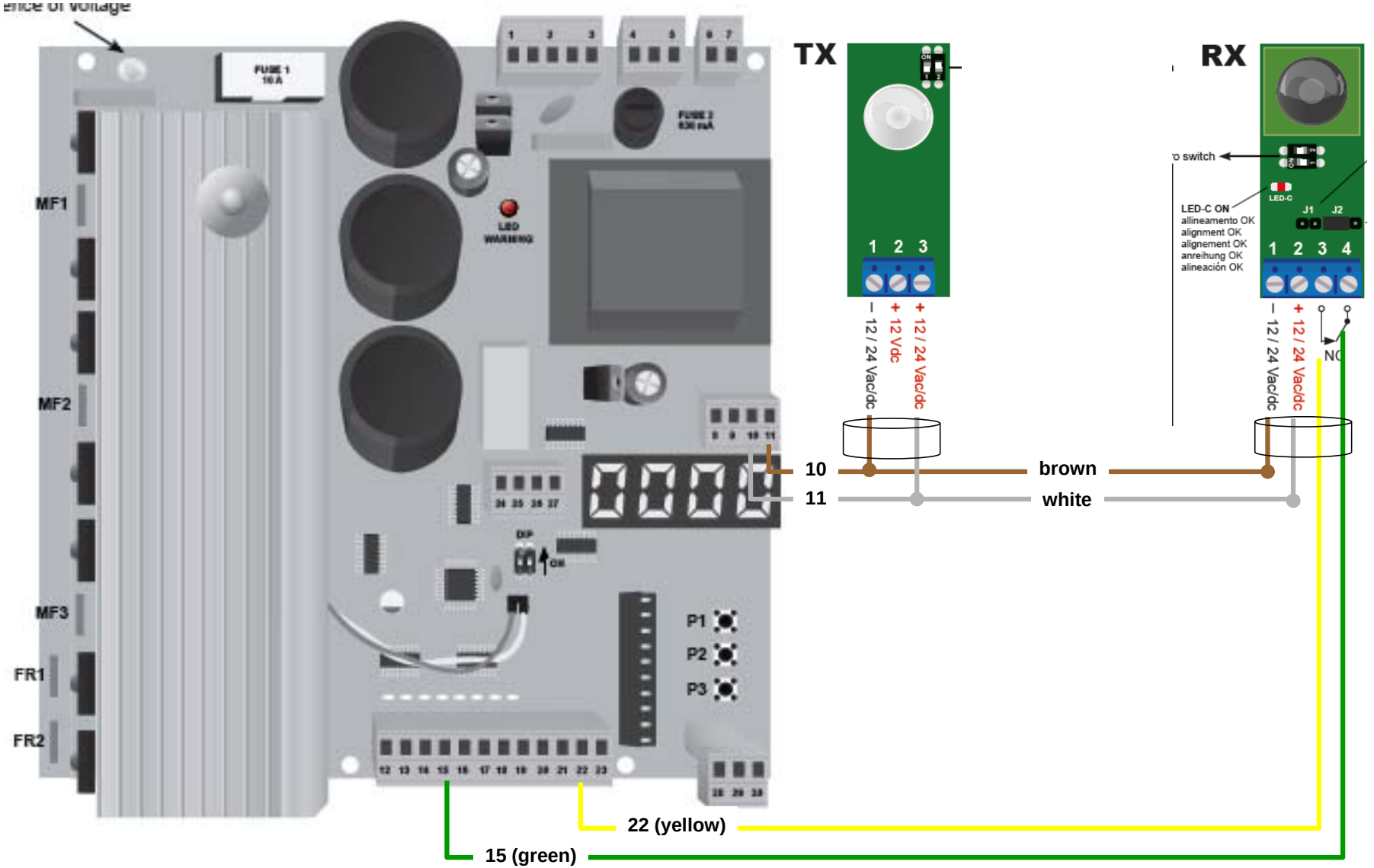
START S12 Inverter Control Panel – Main Photocell



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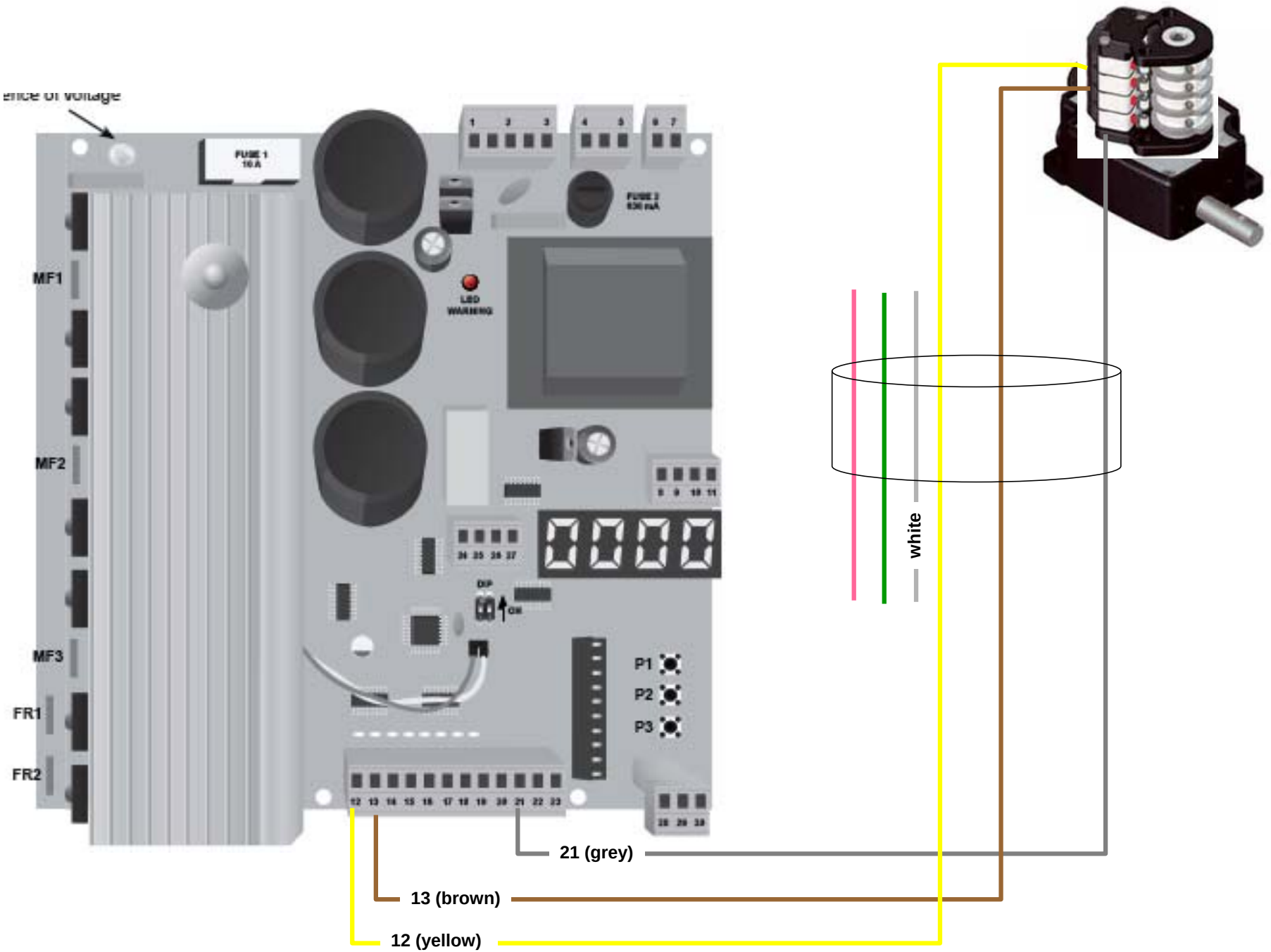
START S12 Inverter Control Panel – Limit Switch Open / Close



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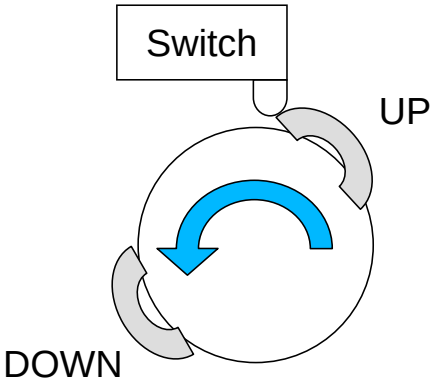
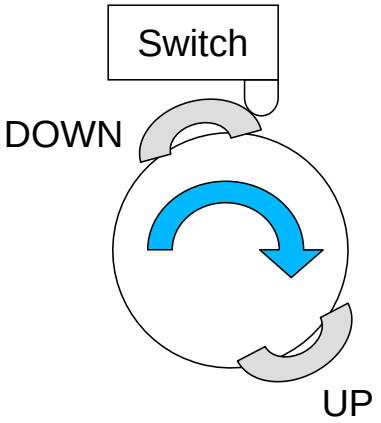
START S12 Inverter Control Panel – Limit Switch Open / Close

UPPER VIEW – Rotating Camme Adjusting

Adjusting Screw



Door open
(and Slow down opening)



Door close
(and Slow down closing)

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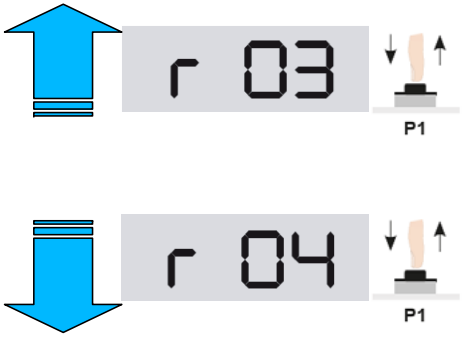
LIMIT SWITCH ADJUST

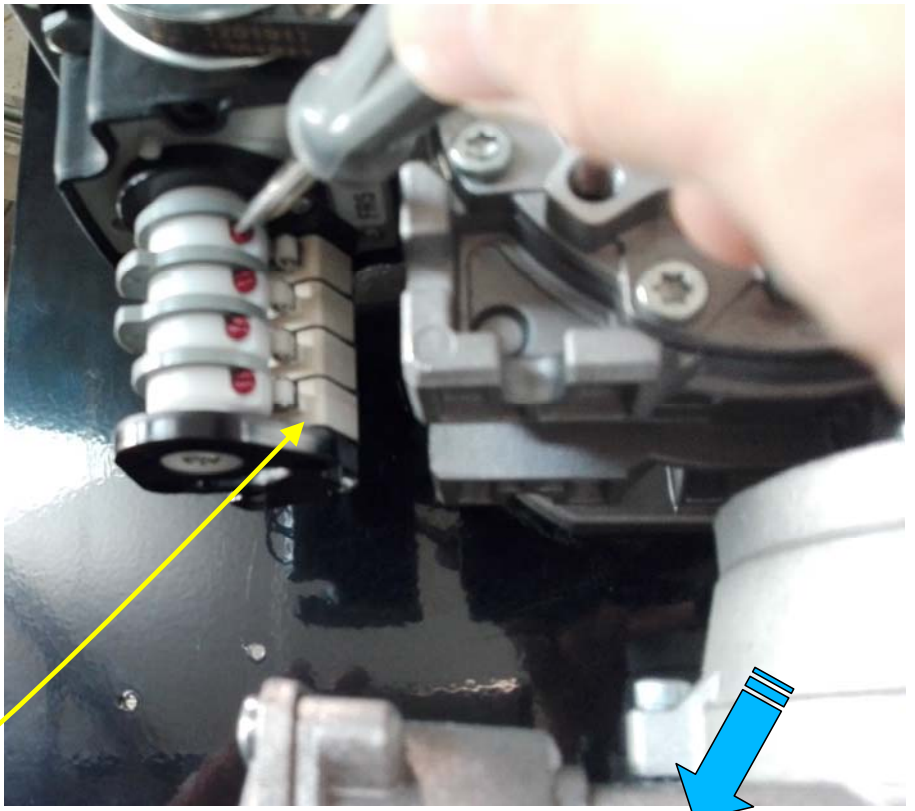
To move curtain use -r- mode.

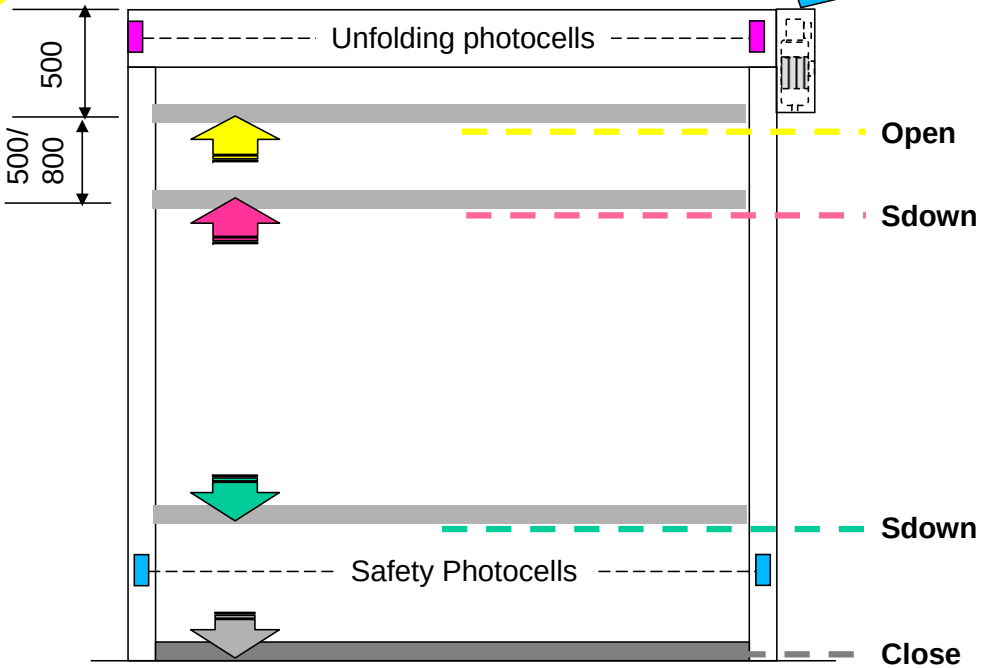
Note : the -r- functions are affected by limit position so if the switch is touched the curtain does not move (up or down).
Move the camme to release the switch.



WARNING

Check wire color connected to the camme to identify the related camme (open, close etc).





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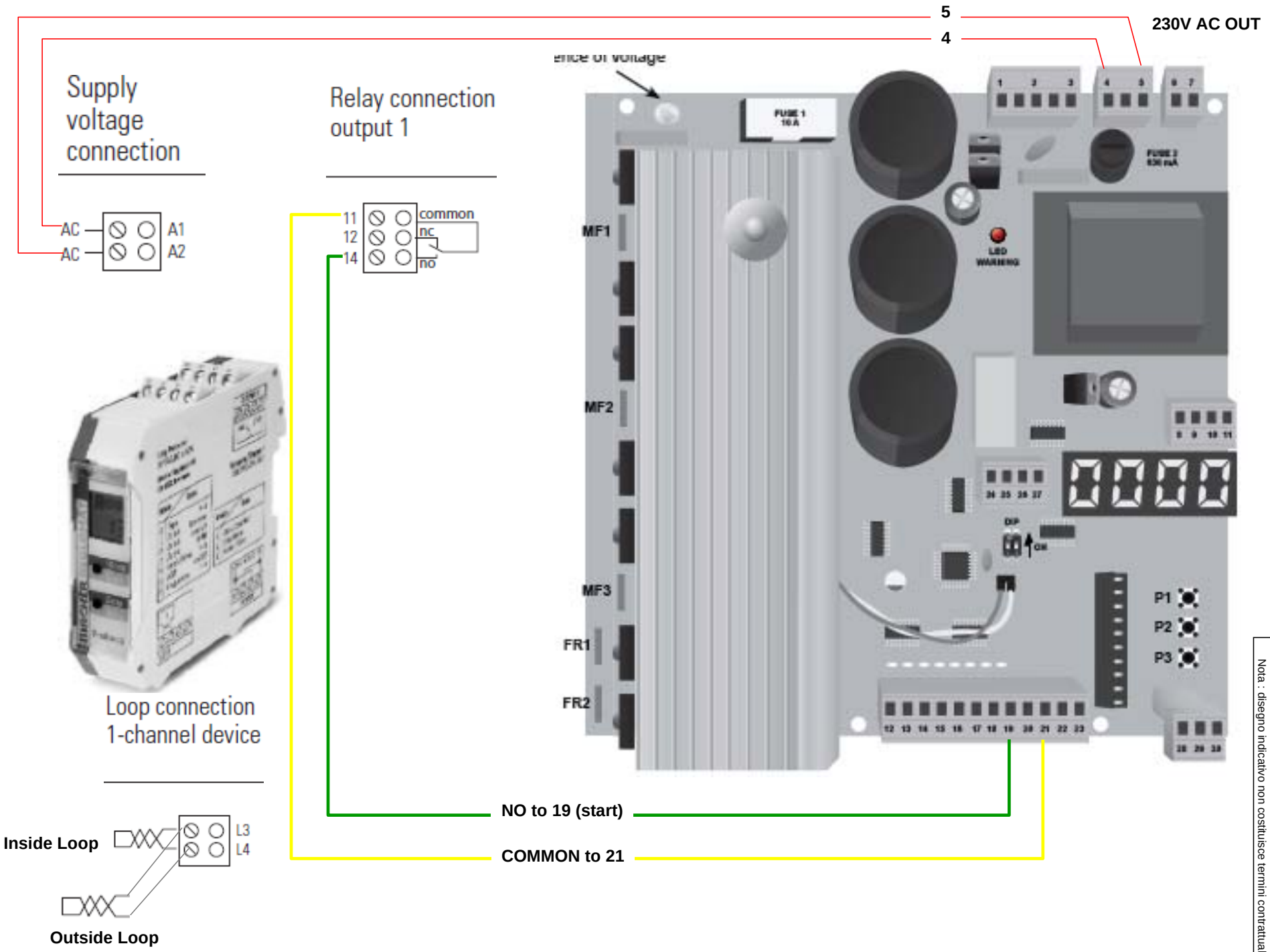
Start S12 Inverter Control Panel – Optin Unit - Bircher PLoop (Induction loop detector)



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