

# USERS MANUAL extension module 4 relay outputs unipolar 16A DMC-004-004

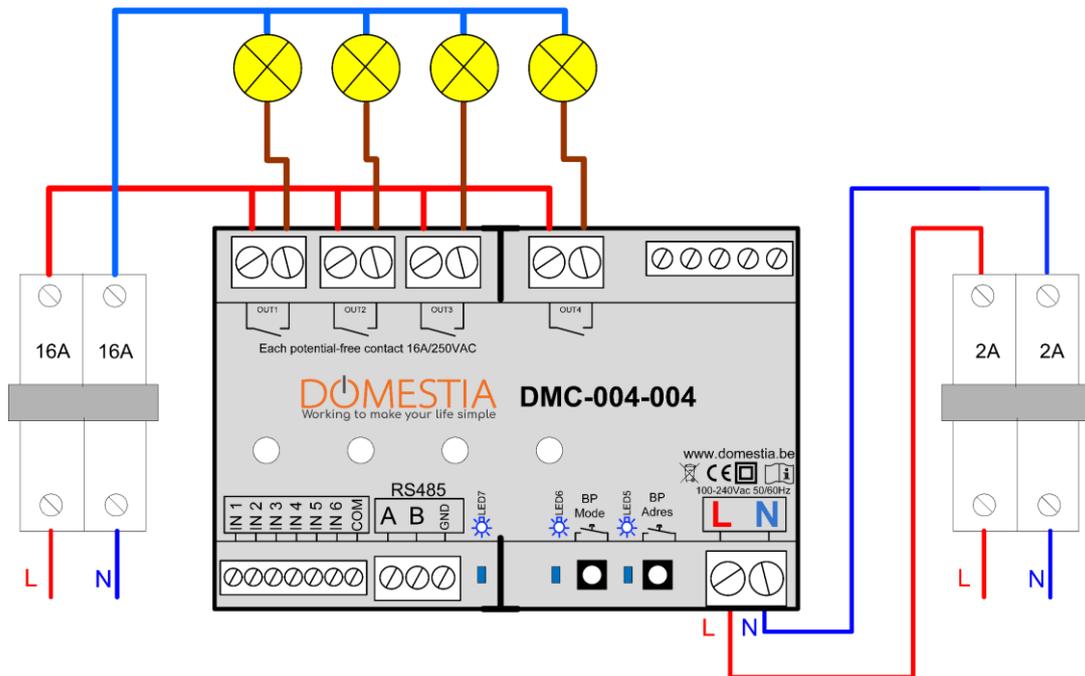
## 1 DESCRIPTION

The module DMC-004-004 is an extension module 4 outputs unipolar 16A/230Vac. The module is also provided with 6 potentialfree inputs that can be used to work in stand-alone mode. The relays can command lighting as well as rolling shutters.

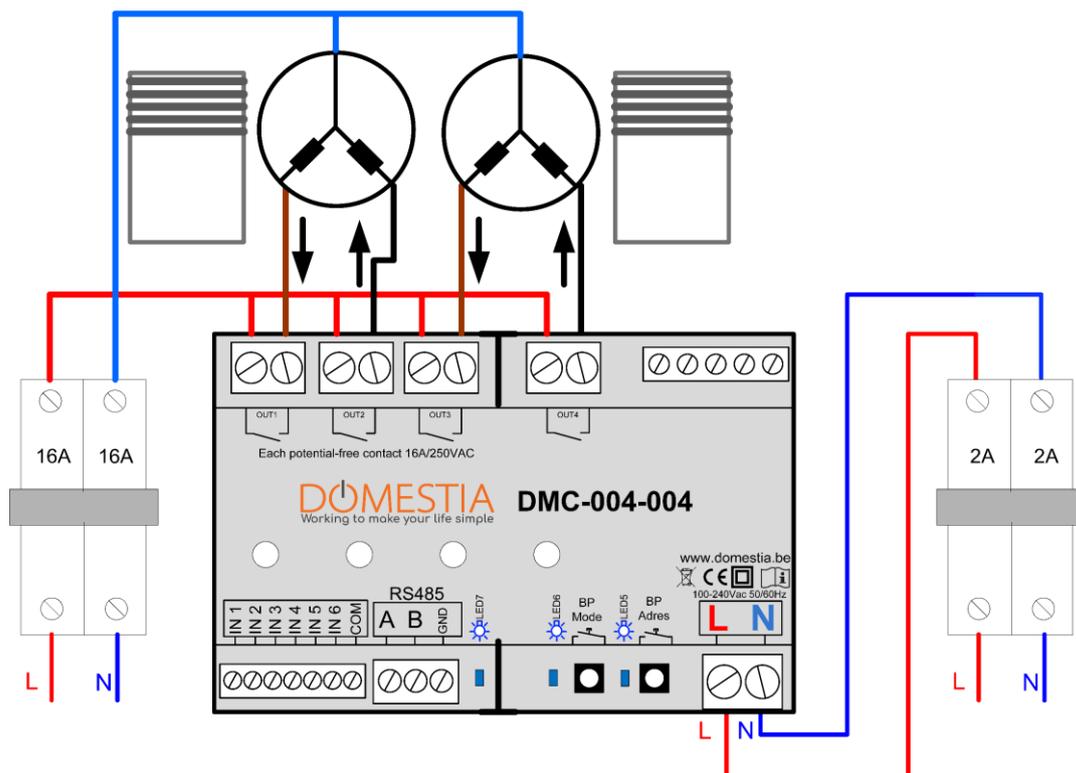
## 2 CONNECTIONS

### 2.1 Connection of the charges on to the module DMC-004-004

Example: connection of 4 lamps:



Example: connection of 2 shutters



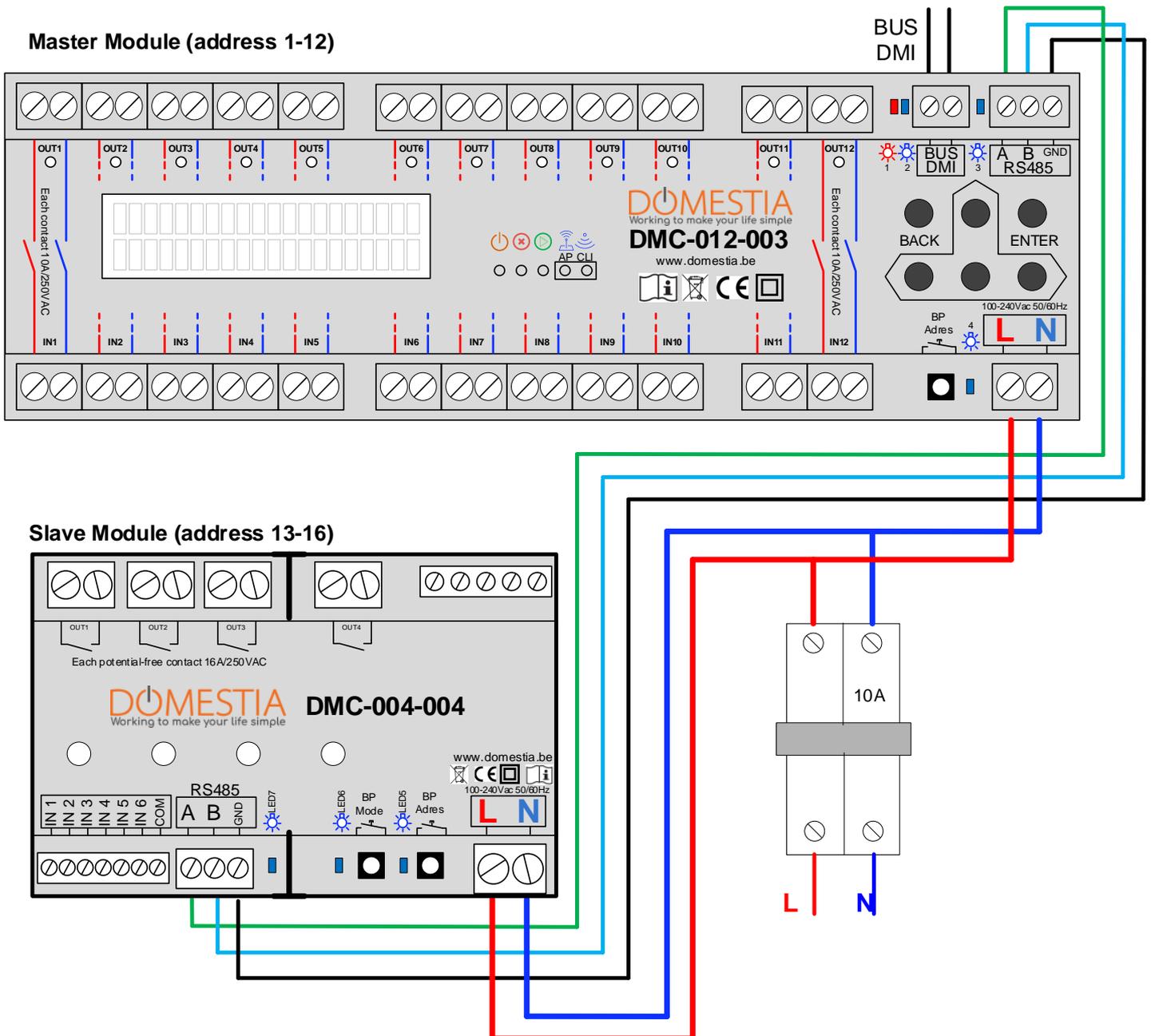
## 2.2 Connection in slave mode

The extension DMC-004-004 module 4 outputs can work as a slave module with:

- A master module DMC/DKS-012-00x
- A master module DMC/DKS-008-001
- A control module DME-LAN-

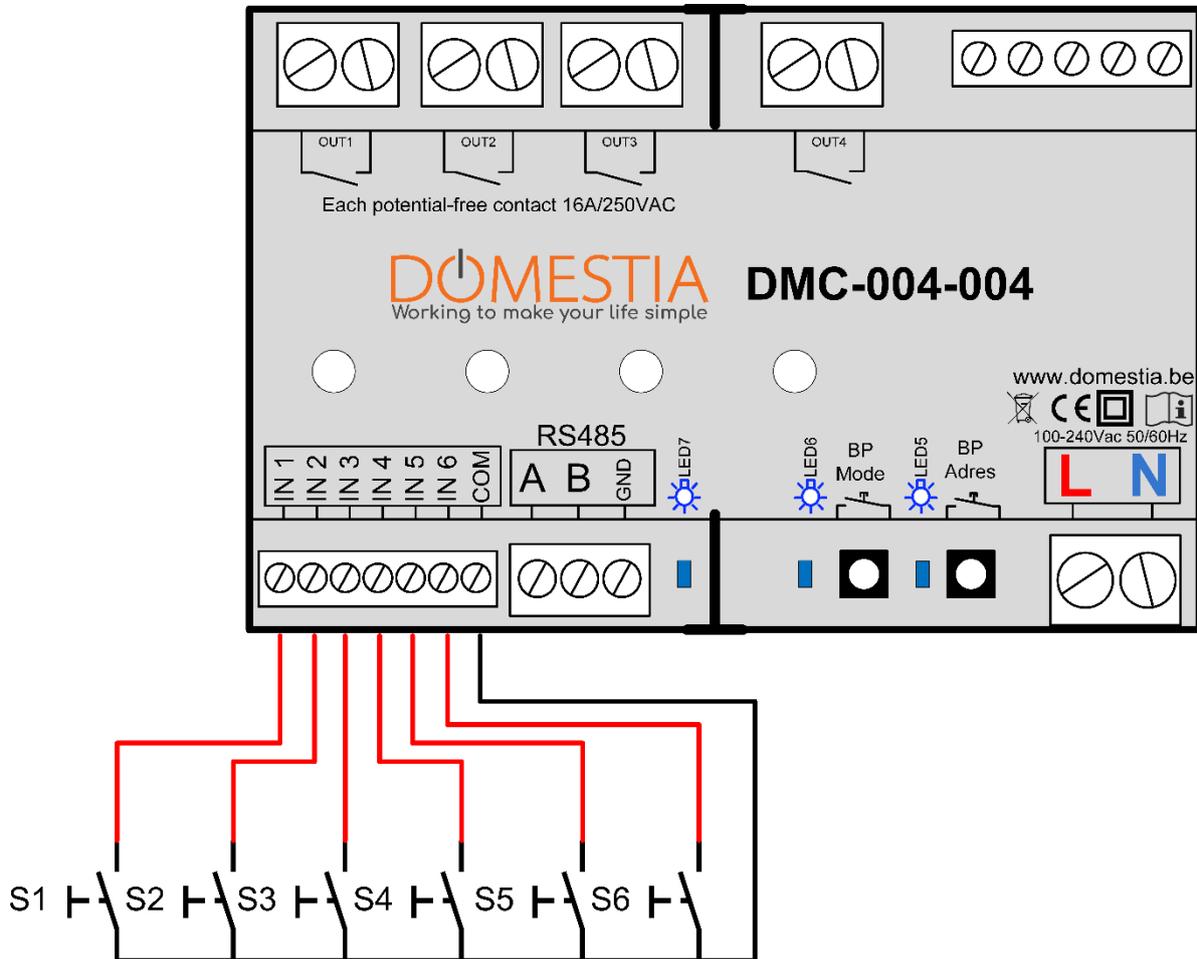
For the connection and the programming of a control module DME-LAN- refer to the user manual of the DME-LAN-.

Example of connection with a DMC-012-003 as the master module:



### 2.3 Connection in Standalone mode (directly controlled by potential free push-buttons).

The extension module DMC-004-004 4 outputs can also work independently in stand-alone mode.



- The « Stand-alone » entries IN 1 à IN 4 allow to directly control the outputs OUT 1 à OUT 4.
- The entry IN 5 has the function of switching off the 4 outputs.
- The entry IN 6 has the function of switching on the 4 outputs.

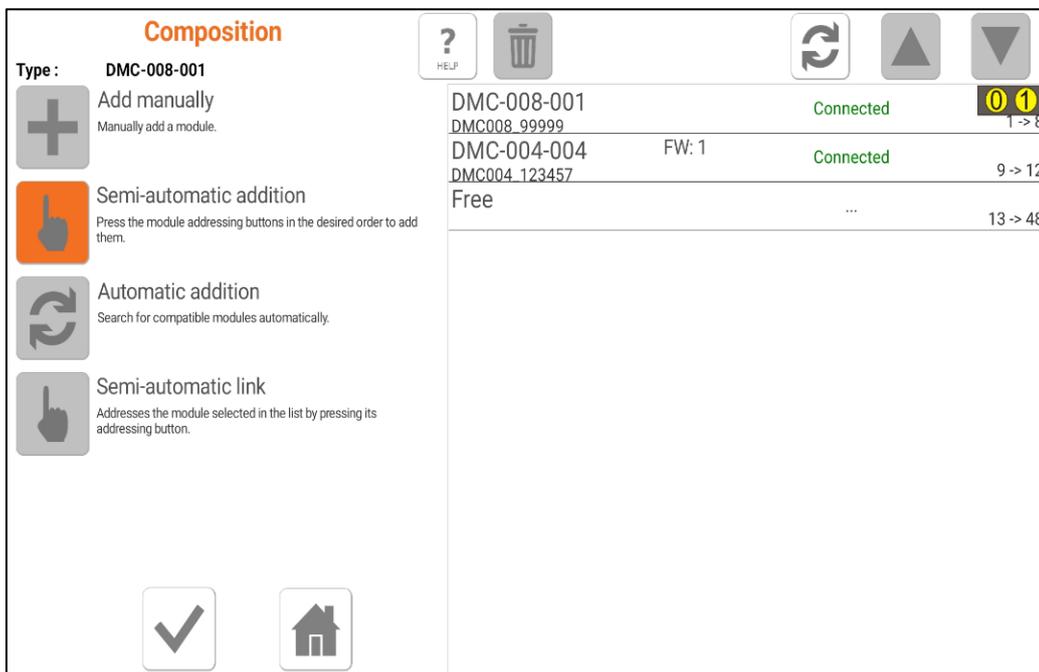
**The entries have to be connected to potentialfree contacts (for example a push-button). No voltage can be applied to the inputs.**

## 3 CONFIGURATION

### 3.1 Addressing from the app « Domestia Home Manager » (via the master module)

When the module is connected to a master module of type DMC-008-001 (starting from the micro-software V1.28), DMC-012-003 or DME-LAN-002 (starting from the micro-software V3.0) it is then possible to address the DMC-004-004 module with the programming app "Domestia Home Manager".

- 1) Automatic addressing : Click on « Automatic addition» => the software analyses the bus RS485 to find the connected modules. After this it is still possible to adapt the module's address with the arrows UP and DOWN.
- 2) Semi-automatic addressing : Click on « Semi-automatic addition » then push on the addressing button of the module(s) DMC-004-004 to add. Click again on « Semi-automatic addition» to end the procedure of adding modules.



### 3.2 Manual addressing

To keep the DMC-004-004 compatible with the old master modules (DMC-012-002, DME-LAN-001) it is possible to address this module with the addressing button BP-Adres.

- 1) Press 4 seconds on the BP-Adres (till the blue LED turns off)
- 2) Then press the number of times corresponding to the desired addressing (see **addressing table**). The LED indicator lights up with each press. (Maximum delay of 2 seconds between successive presses)
- 3) After a delay of 2 seconds after the last press: the blue LED flashes the number of times the button was pressed to confirm the address.

### 3.3 Reset addressing

To delete the module's address press the address button for between 10 and 14 seconds. When the button is released, the LED flashes 10x rapidly after a 3 second delay to confirm the action.

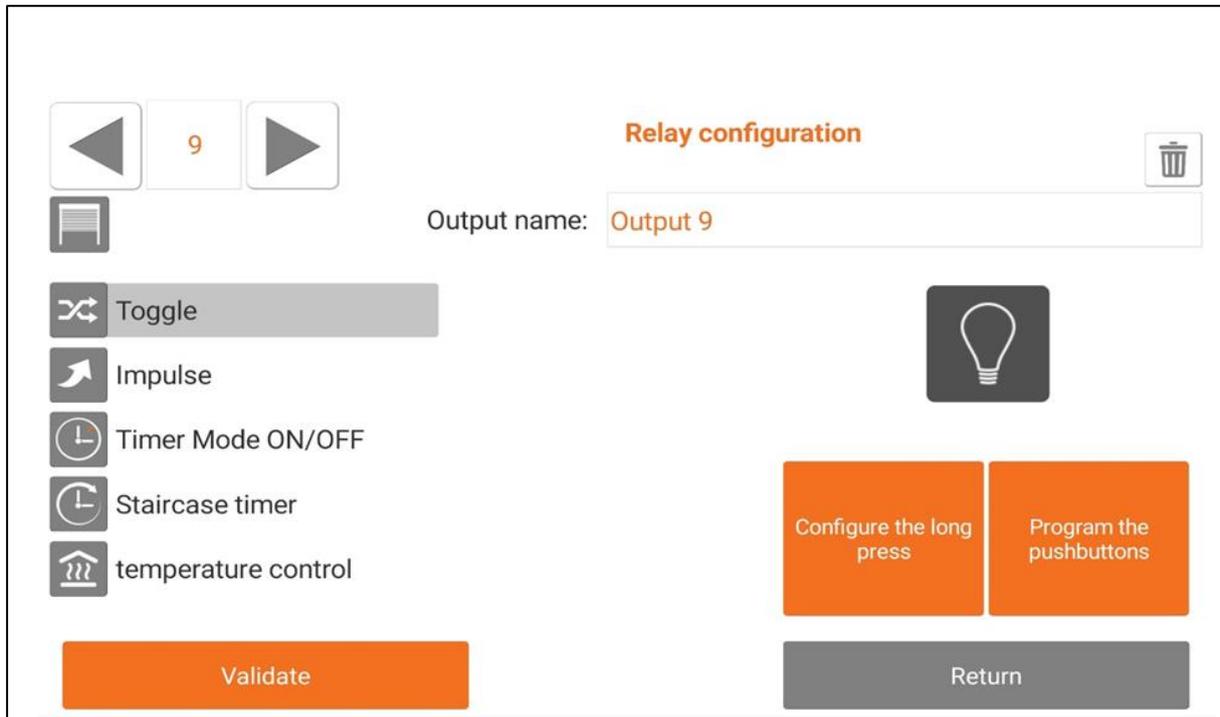
**Note:** When the button is pressed, the LED lights up for 4 seconds and then goes out and lights up every two seconds until the button is released.

Addressing table	
Module's address	Output range
1	1-4
2	5-8
3	9-12
4	13-16
5	17-20
6	21-24
7	25-28
8	29-32
9	33-36
10	37-40
11	41-44
12	45-48
13	49-52
14	53-56
15	57-60
16	61-64
17	65-68
18	69-72
19	73-76
20	77-80
21	81-84
22	85-88
23	89-92
24	93-96
25	97-100
26	101-104
27	105-108
28	109-112
29	113-116
30	117-120
31	121-124
32	125-128
33	129-132
34	133-136
35	137-140
36	141-144
37	145-148
38	149-152
39	153-156
40	157-160
41	161-164
42	165-168
43	169-172
44	173-176
45	177-180
46	181-184
47	185-188
48	189-192

## 3.4 Configuration of the functioning of the module

### 3.4.1 Configuration from the app « Domestia Home Manager »

Select the output from the main window « Configuration of the installation ». Select the output's functioning mode. By clicking on the shutter's icon you can configure a pair of outputs in mode « Rolling shutters »



### 3.4.2 Configuration with the setting button of the module (BP-Mode **(only if used in the mode « Stand alone »)**)

1- Press and hold the "BP-Mode" button until the corresponding blue LED goes out. ( $\pm 4$  seconds)

2- Select the channel to be set by pressing the "BP Mode" button repeatedly. The flashing LED moves with each press.

3- Press and hold the "BP Mode" button to activate the selected channel in the setting mode. The LED lights up permanently and the channel lights up at the minimum level.

4-Select « Teleruptor Mode » or « Rolling shutters mode»

In the « Teleruptor Mode » LED6 blinks 1x per second

In the « Rolling shutters mode» LED6 blinks twice 2x successively every seconds.

5-To return to the selection of the channel to be set (step 2), press and hold the "BP-Mode" button.

6- To exit the "setting" mode, press "BP-Adres".

## 3.5 Programming

### 3.5.1 Programming from the app « Domestia Home Manager »

- From the output configuration, click on "Program push buttons" . The output will light up.
- Press for at least 2 seconds the push-button(s) that should drive this output to associate them.
- Click on "Program push buttons" again to exit the programming of this output.

The screenshot shows the 'Relay configuration' screen for 'Output 9'. At the top, there are navigation arrows and the number '9'. Below this is a table with columns 'Bus number', 'Assigned', and 'Use'. The 'Assigned' column contains four radio buttons, all of which are unselected. The 'Use' column shows '2/70' for Line 1 and '0/70' for Lines 2, 3, and 4. To the right of the table is a lightbulb icon. At the bottom, there are two buttons: 'Configure the long press' (orange) and 'Program the pushbuttons' (dark grey). A 'Validate' button is at the bottom left, and a 'Return' button is at the bottom right.

Bus number	Assigned	Use
Line 1	<input type="radio"/>	2/70
Line 2	<input type="radio"/>	0/70
Line 3	<input type="radio"/>	0/70
Line 4	<input type="radio"/>	0/70

### 3.5.2 Programming from the buttons of a module DMC-012-003 or DMC-008-001

- Via the menu "2.1" configure the 4 outputs of the module in the working mode you want (the output numbers depend on the addressing).
- Via menu "4.1" select the output to be programmed and press ENTER. Press for at least 2 seconds the push- button(s) that should drive this output to associate it. Press ENTER again to exit the programming of this output. Repeat the operation for the other outputs.

## 4 FUNCTIONING

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### 4.1 Functioning in slave mode

The functioning in slave mode depends on the configuration of master module.

### 4.2 Functioning in stand-alone mode

A) Outputs configured in the « Teleruptor Mode »:

- By default, inputs 1 to 4 drive outputs 1 to 4 of the module. Pressing the push button reverses the state of the output.
- Input 5 turns off all outputs.
- Input 6 turns on all outputs.

B) Outputs configured in the « rolling shutters mode»:

- The inputs 1 to 4 drive outputs 1 to 4 of the module (**odd outputs** for shutters down, **even outputs** for shutters up)  
The activation of a 'down' relay while 'up' is active will deactivate the 'up' relay before 'down' is activated.  
The activation of an 'up' relay while 'down' is active will deactivate the 'down' relay before 'up' is activated.
- Continuous pressing will keep the corresponding relay activated as long as it is pressed and deactivated once the push-button is released.
- Input 5 activates both 'shutters down' relays.
- Input 6 will activates both 'shutters up' relays.

Reminder: In stand-alone mode, you don't have to use an identification module. (DMI-006-001)

## 5 ERROR CODES

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Functioning normally:

The LED associated to the output channel is lit continually when activated, and off when it is inactive.

In case of malfunction, the table below gives a series of error codes.

STATE	Problem	Possible causes
LED 5 doesn't blink (in slave mode)	No communication with the master module	Verify the connections of the RS485 (between the the DMC-004-004 and the master module). Master module not present or no power supply to the Master. Master module not configured as a master.
Les LED 1 à 4 lights on (each) in turn	Impossible to control the lights.	Verify the connections of the RS485 (between the the DC-004-004 and the master module).
Shutters up & down reversed	One/more shutter(s) goes/go up instead of down and the opposite	'Shutter down' must be connected to an odd output 'Shutter up' to an even

## 6 TECHNICAL CHARACTERISTICS

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### Functional characteristics

- 6 Stand Alone inputs (to use with potentialfree contacts).
- 4 configurables relay outputs.

### Electrical characteristics

- Power Supply 230Vac / 50Hz.
- Own consumption: 2,60 W
- Internal non-replaceable fuses
- Relay 16A/250Vac :
  - Maximum AC breaking capacity: 4000 VA (resistive)
  - Maximum start-up current of the relays:
    - 165A max 20ms (incandescent lamps)
    - 800A max 200µs (fluorescent lamps)

### Operating Temperature

- Stockage : -30°C to + 65°C
- Fonctioning : -10°C to +45°C

**CE Marking:** This product complies with all applicable directives. The EU Declaration of Conformity is available on [www.domestia.be](http://www.domestia.be)

## 7 WARRANTIES

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The duration of your product's basic warranty is 2 years from the purchase date, which must be confirmed with an invoice bearing the name of the seller and the date on which the sale took place and the serial number(s) of your product(s) clearly indicated on the invoice which is the only document representing the warranty.

Excluded from this warranty are all the following cases:

- All defective parts due to negligent use, misuse, incorrect maintenance or installation that does not comply with that specified by the manufacturer (always refer to the installation and user manual provided with the device). Repair attempts made by the customer or a third party are not permitted. Damage caused by accident, force majeure or other causes for which Domestia cannot be held responsible.
- Fault not effecting the proper functioning or proper use of the equipment.

## Domestia

Rue Hector Denis 114  
4420 Montegnée  
Tél : 04/ 372 07 16  
Fax : 04/ 372 07 19  
[info@domestia.be](mailto:info@domestia.be)  
[www.domestia.be](http://www.domestia.be)

