1. USE

Flush mounted 2 module actuator device with 2 internal relays, 4 pushbuttons, and 3 bicolour LEDs, green + red for the LIVING and MÀTIX version, and blue + red for the AXOLUTE, CÉLIANE and ARTEOR version.

The actuator has been designed to be used with specific control devices for the management of shutters.

However, the same actuator can also be used with all other control devices, although in that case the Preset function will not be available.

Preset function:

In addition to the Monostable and Bistable UP/DOWN operating modes, by pressing the STOP pushbutton the actuator gives the possibility of moving the shutter to a specific position (Preset). During this mode of operation, the Preset LED will be on.

The device is supplied with 9 preset positions, which can be selected by connecting the numeric configurators 1 to 9 to the "Pre" socket on the back of the actuator.

It is also possible to set a different position as required by the user; for the configuration modes see the next page.

The Preset function can also be managed using the Scenario Module (enabling of scenarios with preset shutter positions).

Note: The scenario module must have been produced after week 29-2012.

2. TECHNICAL DATA

|	
Power supply from BUS SCS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Max. absorption:	16 mA
Operating temperature:	0 – 40 °C
Power/Absorption of driven loads:	250 Vac – 2 A

3. STANDARDS, CERTIFICATIONS, MARKS

- EN50090-2-2: Home and building electronic systems (HBES)
- EN50090-2-3: General functional safety requirements for products intended to be integrated in HBES
- EN50428: Switches and related accessories for use in home and building electronic systems (HBES)
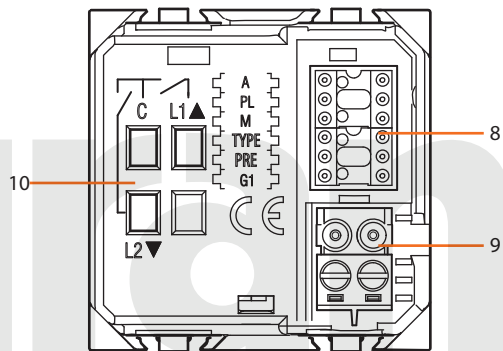
4. DIMENSIONAL DATA

Size: 2 flush mounted modules

Front view
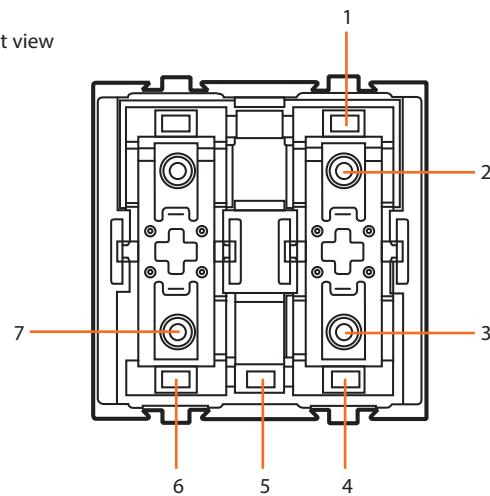
Rear view

5. LEGEND

1. UP LED: orange (green + red) or purple (red + blue), when the shutter is moving upwards. Green or blue, when the shutter is still, or moving downwards.
2. UP shutter pushbutton
3. DOWN shutter pushbutton
4. DOWN LED: orange (green + red) or purple (red + blue), when the shutter is moving downwards. Green or blue, when the shutter is still, or moving upwards.
5. Push&Learn configuration and shutter position configuration pushbutton.
6. Preset LED: ON orange (green + red) or purple (red + blue), when the shutter is moving to the Preset position, flashing during the virtual configuration.
7. STOP Pushbutton: Press when the shutter is still to move it to the Preset position. Press when the shutter is moving, to stop it at the current position.
8. Configurator socket (to be used only in MY HOME systems with physical configuration)
9. BUS clamp
10. Clamps (3 x 2.5 mm²) for connection to the load

6. CONFIGURATION

When installed in a MY HOME system, the device may be configured in two ways:

- PHYSICAL CONFIGURATION, by connecting the physical configurators to their sockets.

- VIRTUAL CONFIGURATION, by connecting the system to the PC using the Kit item 3504 or the Web server. The Virtual configurator software must be installed on the PC.

PHYSICAL CONFIGURATION

On the back of the device are 6 sockets for the connection of the numerical configurators The meanings of the positions are as follows:

A = room
PL = light point
M = operating mode (see following table)

Mode	Value configurator in M
Standard operation. UP/DOWN rolling shutter bistable. After acquiring the two positions, closed and open shutter, it will be possible to manage 100 different positions.	none or ↑↓
UP/DOWN rolling shutter monostable.	↑↓M
UP/DOWN rolling shutter monostable. Bistable mode if the pressure time is more than 1.5 s.	1
UP/DOWN rolling shutter bistable. Blades adjustment if the pressure time is more than 1.5 s.	2
Come standard operation. The actuator ignores the Room and General controls	PUL
Slave device. The actuator follows the status of the Master actuator.	SLA

Type = defines the type of motor to drive:

configurator 1 = standard motor.

configurator 2 = Pulse motor.

Operating mode for pulse motors with a 3rd limit switch:
Connecting the configurators:

- 2 to the Type socket

- 9 to the Pre socket of the device, when the STOP pushbutton of the control is pressed while the shutter is still, the shutter moves to the position of the 3rd limit switch.

Pre = connect one of the configurators from 1 to 9 to select one of the 9 Preset positions saved in the actuator, as shown in the following table. If no configurator is connected, the "Preset" position is disabled.

Correspondence between the value of the configurator in the Pre position and the opening position of the shutter

Configurator	Opening
9	90 %
8	80 %
7	70 %
6	60 %
5	50 %
4	40 %
3	30 %
2	20 %
1	10 %

G1 = defines the 1 to 9 group of actuators it belongs to.

UP LED
UP pushbutton
DOWN pushbutton
DOWN LED
Configuration pushbutton
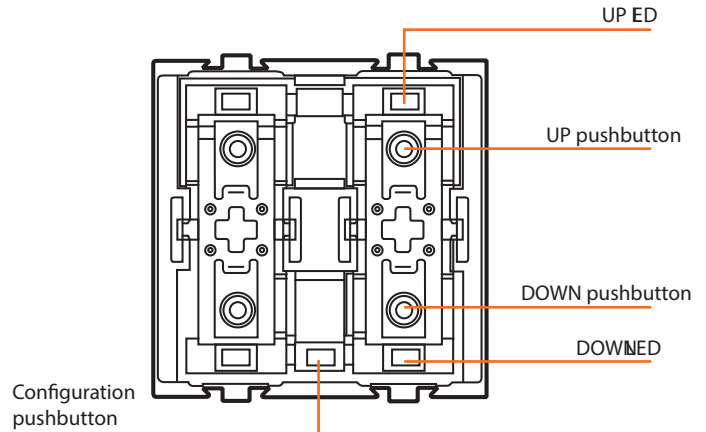
Manual calibration of the shutter position

This operation is **necessary** for correct operation of the actuator, and ensure that the actuator saves the shutter opening and closing positions.

If no calibration is performed, the actuator cannot be managed by the control devices, but only locally, by pressing the corresponding front pushbuttons; in this case, it will send controls at 5 seconds intervals to the motor.

1. Press the configuration pushbutton for at least 3 seconds. All the LEDs will come on orange (green + red), or purple (red + blue).

2. Release the configuration pushbutton. The LED indicating the UP position will start flashing quickly.

3. Press and release the "UP" pushbutton. The shutter will move upwards, and the "UP" LED will flash slowly.

4. When the shutter has reached the maximum opening position press the "DOWN" pushbutton. The shutter will move downwards, and the "DOWN" LED will flash slowly. During this stage, the actuator measures and saves the time it takes the shutter to close.

5. When the shutter is fully closed, press and release the "UP" pushbutton. The shuTter will move upwards, and the "UP" LED will flash slowly, to enable the actuator to measure and save the time it takes the shutter to open.

6. When the shutter maximum opening position is reached, press the "DOWN" pushbutton again to complete the cAlibration procedure. The "UP" position LED will become green or blue.

WARNING: the calibration precision, and therefore the control of the shutter position, depends on the accuracy with which the limit switch positions are manually detected during the calibration itself.

Saving the new shutter position (Preset)

The Preset function gives the possibility of setting the shutter in one of the 9 positions that can be selected through the configurator in the Pre socket. It is also possible to set a different position as required by the user. The procedure, which can be performed from the control device, or the actuator, is as follows:
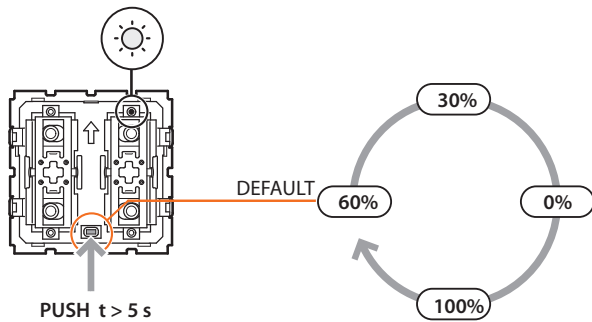
1. Press the "UP" and "DOWN" pushbuttons to move the shutter to the desired position.

2. Press the STOP pushbutton for at least 10 seconds. The actuator saves the position of the shutter.

3. To confirm that the position has been saved correctly, the two LEDs, UP and DOWN, come on orange (green + red) or purple (red + blue) for 2 seconds.

Irrespective of the shutter position, once this has been stopped by pressing the STOP pushbutton, it will be possible to move it to the preset position.
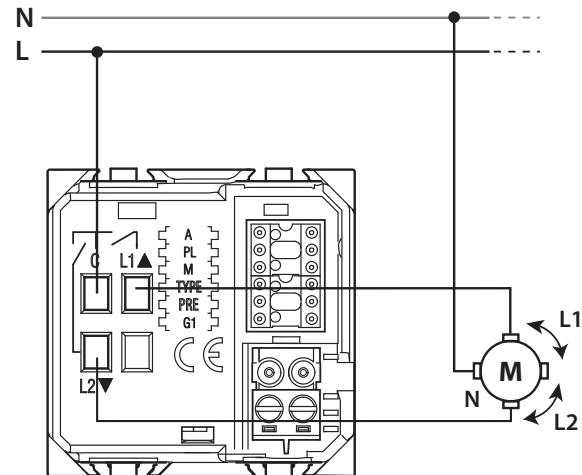
LED ADJUSTMENT

1. Press the configuration pushbutton for at least 5 seconds. All the LEDs will come on orange (green + red), or purple (red + blue) after 3 seconds, and after another 5 seconds will turn green or blue again;
2. Press and hold down the pushbutton, the brightness of the LED will change every 2 seconds as shown in the drawing;
3. Once the desired brightness level has been reached, release the pushbutton.

7. WIRING DIAGRAM

Traditional motor:

Pulse motor

For the connection refer to the indications supplied with the motor interface.