Special control

H4651M2 - L4651M2 - AM581M2

Description

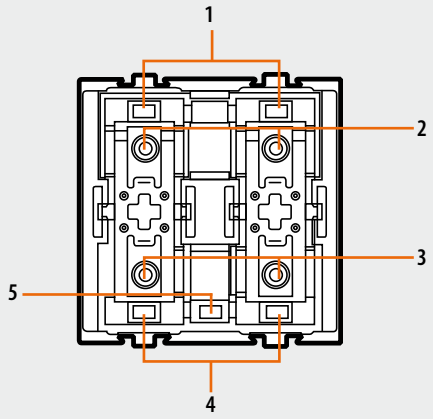
The two-module flush mounted and lowered special control has 4 pushbuttons and 2 green/red two-colour LEDs (LIVING and MÀTIX versions), or 4 blue/red two-colour LEDs (Axolute version). The LEDs may be adjusted or excluded using the pushbutton on the control. The control can be used for performing both standard and special functions (timed ON, scenario control, timer control, dimmer, functions for video door entry system and sound system).
The device may be installed in a MY HOME system and can be configured both physically and virtually, or as a component of the Lighting Management system, using specific configuration procedures (Plug&go, Push&Learn, Project&Download).

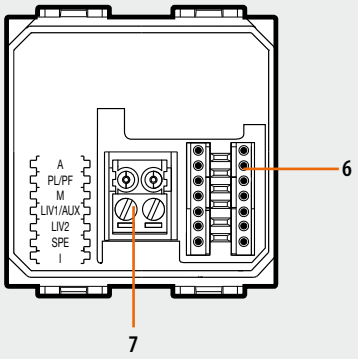
Technical data

Power supply from SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption with maximum LED intensity:	6 mA for H4651M2 8.5 mA for L4651M2 and AM5831M2
Operating temperature:	5 – 35°C

Dimensional data

Size: 2 flush mounted modules





MY HOME 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 3503N Kit or the web server. The Virtual configurator software must be installed on the PC.

Physical configuration

The special control may also be used in systems with SCS/SCS gateways (item F422). If the control is installed on the BUS of an interface, it will be possible to directly control the actuator on the BUS of another interface, without the need for intermediate auxiliary controls. For this, the I configurator, representing the interface address on which BUS is the actuator to control, must be used. The logic expansion interfaces on the system must be numbered from 1 to 9. When I=0, the device on the local line is controlled, while if I=CEN, the line controls a device installed on the riser. With the new control, it is therefore possible to set addresses for 81x9 devices connected to the buses for the 9 interfaces + 81 devices in the riser, for a total of 810 addresses. The M, LIV1 and LIV2 sockets are also used for timer control functions.

Depending on the configuration of SPE, the device performs functions for several systems:

SPE = 0, 1, 2, 3, 4, 5, 6, 9, ON for Automation system
SPE = 7 for Video door entry system
SPE = 8 for Sound system

Legend

1. LED
2. Upper pushbutton
3. Lower pushbutton
4. LED
5. Pushbutton for LED adjustment/exclusion
6. Configurator socket
   (attention, it must only be used in MY HOME systems with physical configuration)
7. BUS

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1) Mode with SPE=0 - Standard functions - Automation

Possible function	Value configurator in M
Cyclic control. For point-point controls, the ON/OFF functions are performed by a short pressure, while a longer pressure will be used for the adjustments; for the other controls only the ON/OFF functions are performed	No configurator
ON control only	ON
OFF control only	OFF
On control using the upper key, OFF control using the lower key. For point-point controls, the ON/OFF functions are performed by a short pressure, while a longer pressure will be used for the adjustments	0/1
Control of rolling shutter UP/DOWN to end of stroke	
Control of monostable rolling shutter UP/DOWN (duration of the control for the whole time the key is pressed)	0/1
Pushbutton mode	PUL
Timed ON control	1 – 8
The control, which address is indicated in A and PL, sends a control for the scenario programmer, item MH200N	CEN

1) The controlled actuator switches OFF after an amount of time set by the configurators used, as shown in the table.

2) Enabling the T1 (upper) and T2 (lower) keys to manage scenarios of the programmer MH200.

Configurator	Time (minutes)
1	1
2	2
3	3
4	4
5	5
6	15
7	30 sec.
8	0.5 sec.

2) Mode with SPE=1 - advanced functions - Automation

Possible function	Value configurator in M
Locks the status of the devices to which the control is addressed	1
Unlocks the status of the devices to which the control is addressed	2
Unlocks with upper key and locks with lower key	3
ON short timed 2 seconds	7
Timed ON 10 min.	8

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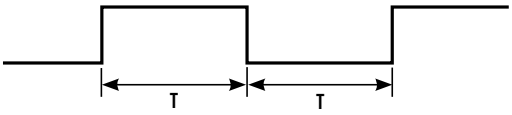
3) Mode with SPE=2 - Flashing - Automation

Possible function	Value configurator in M
On with flash [1)]	0 – 9

1) When an actuator receives a flashing control, this is performed by closing and opening the relay for a time equal to T.
The T time depends on the configurators used in M, as shown in the table:



Configurator	Time (sec.)
0	0.5
1	1
2	1.5
3	2
4	2.5
5	3
6	3.5
7	4
8	4.5
9	5

4) Mode with SPE=3 - Dimmer level - Automation

Possible function	Value configurator in M
Selection of the adjustment level of Dimmer[1]	1 – 9

1) The configurator in M determines the adjustment in % of the load power.
as indicated in the table

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

5) Mode with SPE=4 - scenario repetition - Automation

Possible function	Value configurator in M
Repetition of scenario 1 - 9 of the scenario module which address is specified in A and PL	**1 – 9**

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6) Mode with SPE=5 - enhanced dimmer functions - Automation

Possible function	Value configurator in M
Selection of the 0 – 9 SOFT-START and SOFT-STOP speeds (see table below) and selection of the fixed adjustment level from 1% to 99% through the LIV1=0-9 and LIV2=0-9 sockets. Control is cyclic, with ON at the selected level, and OFF. If LIV1=LIV2=0, the control enables to switch between ON (at the last saved level) and OFF, with a short pressure. When using point-point controls, the adjustment occurs with a long pressure. The function is only active if the device address corresponds to a dimmer actuator.	0 – 9

Configurator	Soft-start and soft-stop time (sec.)
0	1
1	2
2	3
3	5
4	10
5	20
6	40
7	1 min.
8	2 min.
9	4 min. 15 sec.

7) Mode with SPE=6 - Scenario control - Automation

The special control does not manage the scenarios by saving them in its own memory, but has the function of recalling, creating or changing 4 scenarios in the scenario Module F420.

The A and PL positions of the special control must correspond to those of the scenario module, while the association of each key of the control with one of the scenarios saved, is performed by configuring the M socket.

Value configurator in M	Key 1 (T1)	Key 2 (T2)	Key 3 (T3)	Key 4 (T4)
1	scenario 1	scenario 2	scenario 3	scenario 4
2	scenario 5	scenario 6	scenario 7	scenario 8
3	scenario 9	scenario 10	scenario 11	scenario 12
4	scenario 13	scenario 14	scenario 15	scenario 16

NOTE: M=1 – 4 identifies the group of the scenarios to control with the four keys, T1, T2, T3 and T4.

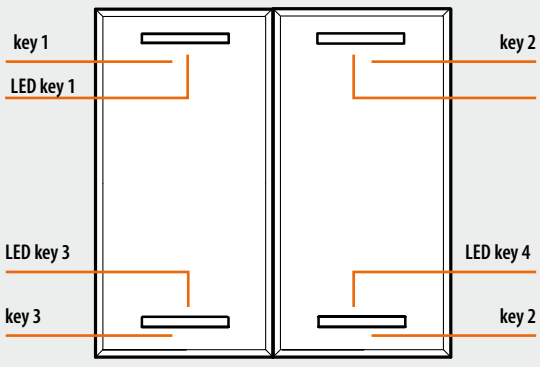
Scenario programmer:

Scenarios: in order to program, change or cancel a scenario, it is necessary to enable the programming mode of the Module item F420 so that the status LED is green (press the lock/unlock key on the Scenario Module for at least 0.5 seconds); continue with the following operations:

1) Press one of the four keys on the special control to which the scenario is to be associated for 3 seconds, the corresponding LED will begin to flash.
2) Set the scenario using the corresponding controls for the various Automation, Temperature control, Sound system, etc. functions.
3) Confirm the scenario by quickly pressing the corresponding key on the special control to exit programming mode.
4) To change or create new scenarios to be linked to the other keys, repeat the procedure starting from point 1.

To call a set scenario just press its pushbutton on the control quickly. To completely delete a scenario, press the corresponding key for 10 seconds.

Scenario management keys



NOTE: The image is shown as reference. The position of the keys is the same for all the Legrand automation ranges.

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8) Mode with SPE=7 - Video door entry system

Possible function	Possible function
Door lock control; A and PL are the address (two digits) of the entrance panel for which to control the door lock using the T3 key (bottom left); the T4 key (bottom right) controls the door lock of entrance panel EP (A/PL)+2, the T1 key (top left) controls the door lock of entrance panel EP (A/PL)+1 and the T2 key (top right) the one of entrance panel EP (A/PL)+3.	1
Control for call to the floor; A and PL are the address (two digits) of the handset to call.	2
Control to switch on the staircase lights; A and PL are the address (two digits) of the handset from where the staircase lights are controlled.	3

9) Mode with SPE=8 - Sound system

This function is used to control the amplifiers and the sound system sources.
When A, PL/PF and M are correctly configured, the following functions are performed:

1) A = 1–9 address of the amplifier room to control
   PL/PF = 0–9 amplifier address to control
   M = 0 (Follow-me mode)*
2) A = AMB - Room configuration
   PL/PF = 0-9 configuration of the room to control (in this case all the amplifiers of the same room will be controlled)
   M = 1 (activation of sound source S=1)*
3) A = GEN this control enables switching ON all the amplifiers in the home
   PL/PF = -
   M = 4 (activation of sound source S=4)*

NOTE (*): M = 1-4 indicates the source to activate before switching the amplifier on. If M=0, source 1 is switched on without first switching OFF the sources (follow-me mode).
In all SPE=8 modes, the sockets of LIV1, LIV2 and I must not be configured.

Example:
- if A=1, PL/PF=1 and M=3, the radio control will manage the amplifier with address A=1 and PF=1, and will activate source no. 3.

In sound system mode the keys on the special control perform the following functions:
1) With a short pressure of T1, the following sequence is sent:
   - ON of the sources, source 1 is switched on only if M=0;
   - ON of the amplifier.
2) With an extended pressure of T1:
   - for point-point controls, if the amplifier is already on, only the volume is adjusted (VOL+); if the amplifier is OFF, the switch on sequence is sent first;
   - for Room, Group and General controls, only the volume is adjusted.
3) With an extended pressure of T3, the volume is adjusted (VOL-). A short pressure sends the OFF control to the amplifier.
4) When T2 is pressed the source is changed.
5) T4 is the control for the active source.

10) Mode with SPE=9 - enhanced dimmer functions version 0/I - Automation

Possible function	**Value configurator in M**
Selection of the SOFT-START and SOFT-STOP speed (see table below) and selection of the fixed adjustment level from 1% to 99% through the LIV1=0-9 and LIV2=0-9 sockets, according to the table for SPE=5. Control is ON at the level selected with the upper key and OFF at the one selected with the lower key. If LIV1=LIV2=0, a short pressure of the upper key will be enough for the ON control (at the last level saved), and of the lower key, for the OFF control; only in case of point-point controls, an extended pressure will give the possibility to perform adjustments (upwards with the upper key and downward with the lower key), on 100 levels at variable speed.	0 – 9

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11) Mode with SPE=ON - timer control

In this mode the control only works as a timer. In order to use this special control as a timer control, the meaning of the configurators is as follows:

M becomes M1

LIV1 becomes M2

LIV2 becomes S

Configure the M1 and M2 sockets for setting the timer minutes, and S for the timer seconds, in 5 sec. steps; see table.
If M1=M2=S=9, a control is sent with a 0.5 sec. time value. If M1=M2=S=0, the control is not timed and works in cyclic ON-OFF on the bottom left pushbutton. By correctly selecting the sub keys, it is possible to only send timer controls or, using the two right keys, the usual ON, OFF or dimmer adjustment controls.

S value (LIV2)	Time (sec.)
0	0
1	5
2	10
3	15
4	20
5	25
6	30
7	35
8	40
9	45

12) Management of input auxiliaries (AUX)

The configurator in AUX indicates the auxiliary channel number which activates the control. On receiving a message sent on the AUX channel indicated, the device sends the control for which it is configured, as if its own control pushbutton had been pressed.

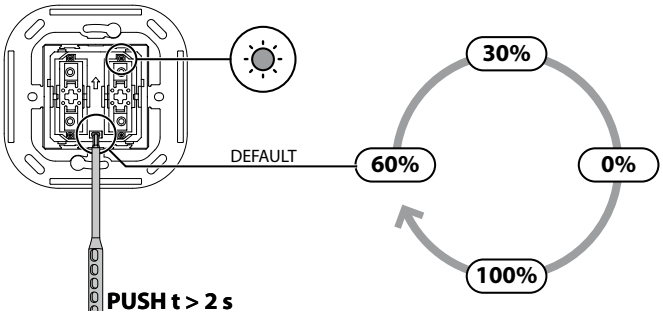
Virtual configuration

Using the Virtual Configurator software it is possible to perform all the functions listed below:
- double light control
- double disable control
- double scenario control
- double CEN control
- double scenario PLUS control
- double CEN PLUS control
- double AUX control
- double video door entry system control
- double sound system control

Lighting Management configuration

When installed in a Lighting Management system, the device can be configured in the following ways:
- Plug&Go (see the dedicated technical guide)
- Push&Learn
- Project&Download,

Using the Virtual Configurator software it is possible to perform all the functions listed below:
- double light control
- double disable control
- double scenario control
- double CEN control
- double scenario PLUS control
- double CEN PLUS control
- double AUX control
- double video door entry system control
- double sound system control

For more information on the functions see the glossary before the Technical sheets chapter.

LED adjustment