

Special control

TECHNICAL SHEET

ITEM H4651M2 - ITEM L4651M2 - ITEM AM5831M2

Description

The special flush-mounted low-profile control with two modules has 4 pushbuttons and 2 two-colour green/red LEDs (in the Living version) or 4 two-colour blue/red LEDs (in the Axolute version). The pushbutton on the control can adjust/exclude the LEDs. The control can perform standard and special functions (timed On, scenario control, timer control, dimmer, video door entry and sound system functions).

Technical data

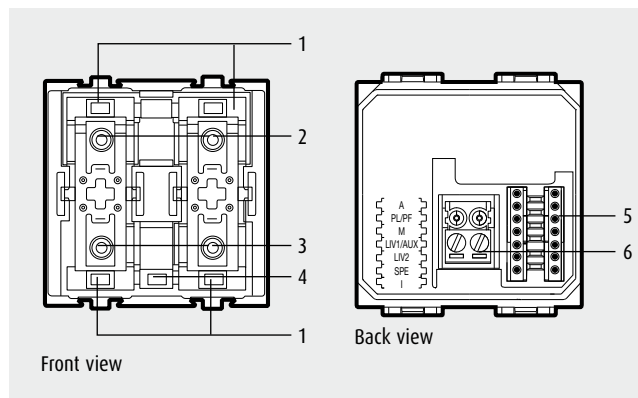
- Power supply from BUS SCS: 27 Vdc
- Operating power supply with SCS BUS: 18 - 27 Vdc
- Absorption with max. LED intensity:
 - 6 mA for H4651M2
 - 8.5 mA for L4651M2 and AM5831M2
- Operating temperature: 5 - 35°C
- Size: 2 flush-mounting modules

Configuration

Depending on the SPE configuration the device performs functions for different systems:

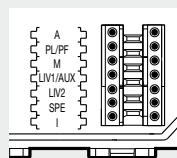
- SPE = 0, 1, 2, 3, 4, 5, 6, 9 and ON for Automation System
- SPE = 7 for Video door entry system
- SPE = 8 for Sound system

The special control can also be used in systems which have SCS/SCS (F422) interfaces. Installing the control on the Bus of an interface an actuator on the Bus of another interface can be controlled directly without using auxiliary controls as go between. To do this use configurator I which represents the address of the interface on whose bus the actuator to be driven is found. The interfaces in the system in logical expansion must be numbered from 1 to 9. If I=0 the device is controlled on the local stretch, while if I=CEN a device installed on the riser is controlled. In total with the new control 81x9 devices connected to the buses can be addressed for the 9 interfaces + 81 devices in the riser, in total 810 addresses. The M, LIV1 and LIV2 housings are also used for the timed control functions.



Legend

1. LED
2. Upper pushbuttons
3. Lower pushbuttons
4. LED exclusion/adjustment pushbutton
5. Configurator housing
6. BUS



A	room
PL/PF	light point/audio point (sound system)
M	mode
LIV1/AUX	dimmer 1 level (with SPE=5-9), or AUX channel (with SPE=from 0-4 and from 6-8)
LIV2	dimmer 2 level (with SPE=5-9)
SPE	special
I	address of the device to be controlled

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

Function which can be performed

Cyclic control. For point-to-point controls it performs the On/Off function when pressed quickly and the adjustment when pressed for a long time; for the other controls it only performs On/Off.

Only On control

ON

Only Off control

OFF

ON control with upper key, OFF with lower key.

0/1

For point-to-point controls it performs the On/Off function when pressed quickly and the adjustment when pressed for a long time

Up control - shutters down to end of travel

↓↑

Up control - monostable shutters down (control for the time the key is pressed)

↓↑M

Pushbutton mode

PUL

Timed On control¹⁾

1 - 8

The control, whose address is given in A and PL, sends a control for the MH200 scenario programmer

CEN

1) The controlled actuator switches off after a time set by the configurators used, as indicated in the table.

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

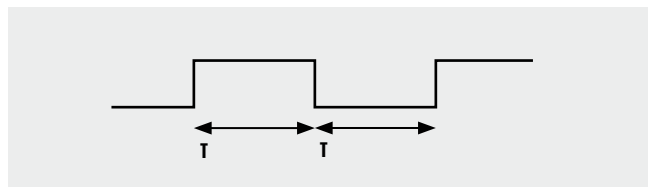
2) Mode with SPE=1 - advanced functions - Automation

Function which can be performed	Configurator M value
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, locks with lower key	3
Short timed ON 2 seconds	7
Timed ON 10 minutes	8

3) Mode with SPE=2 - flash - Automation

Function which can be performed	Configurator M value
On with flash ¹⁾	0 – 9

1) When an actuator receives a control to flash, it performs it by closing and opening the relay for a time T. The time T depends on the configurators used in M as indicated in the table:



Configurator	Time (seconds)
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

Function which can be performed	Configurator M value
Selecting the adjustment level of Dimmer ¹⁾	1 – 9

1) The configurator in M defines the adjustment in % of the power at the load, as indicated in the table

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

5) Mode with SPE=4 - repeating the scenario - Automation

Function which can be performed	Configurator M value
Repeating the scenario 1 – 9 of the scenario module whose address is specified in A and PL	1 – 9

Special control

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

Function which can be performed

Selecting the SOFT-START and SOFT-STOP speed (see table below) and selecting the fixed adjustment level from 1% to 99% by means of housings **LIV1=0 - 9** and **LIV2=0 - 9**. The management is cyclic with ON at the level selected and OFF. If **LIV1=LIV2=0**, the control can perform ON (at the last level saved) and OFF on a short press. For point-to-point controls the adjustment is with long press. The function is active if the device address corresponds to a dimmer actuator.

Configurator M value

0 - 9

Configurator Soft-start and soft-stop time (seconds)

0	1
1	2
2	3
3	5
4	10
5	20
6	40
7	1 minute
8	2 minute
9	4 min. 15 sec.

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

The special control does not manage the scenarios which it can save, but has the function of calling, creating or editing 4 scenarios saved in the F420 scenario module. Positions A and PL of the special control must correspond to those of the scenario module, while each control key is associated with one of the saved scenarios by configuring housing M.

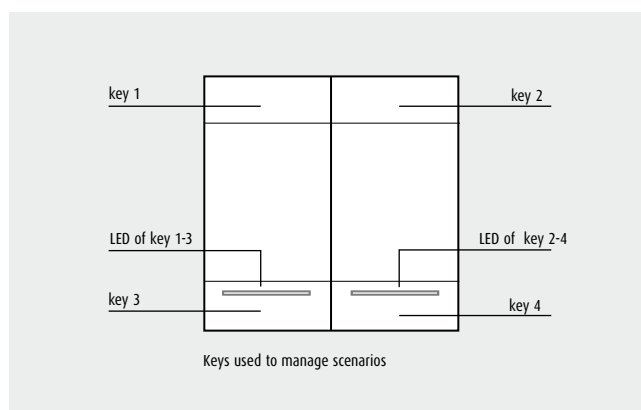
Configurator M value	Key 1 (T1)	Key 2 (T2)	Key 3 (T3)	Key 4 (T4)
1	Scenario 1	Scenario 2	Scenario 3	Scenario 4
2	Scenario 5	Scenario 6	Scenario 7	Scenario 8
3	Scenario 9	Scenario 10	Scenario 11	Scenario 12
4	Scenario 13	Scenario 14	Scenario 15	Scenario 16

NOTE: M= 1 - 4 identifies the group of scenarios to be controlled by the four T1, T2, T3 and T4 keys.

Programming scenarios: to program, edit or delete a scenario enable the programming of the F420 module so that the status LED is green (press the lock/unlock key on the scenario module for at least 0.5 seconds). Then proceed with the following operations:

- 1) press one of the four keys to which the scenario is to be associated for 3 seconds. The corresponding LED starts to flash.
- 2) set the scenario by means of the controls belonging to the various Automation, Temperature control, Sound system, etc. functions.
- 3) confirm the scenario by pressing the corresponding key on the special control quickly to quit the programming status
- 4) to edit or create new scenarios to be associated to the other keys, repeat the procedure starting from point 1.

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



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

Function which can be performed

Door lock control; A and PL are the address (two digits) of the entrance panel which will control the door lock with key T3 (bottom left); key T4 (bottom right) that of the entrance panel EP (A/PL)+2. Key T1 (top left) controls the door lock of entrance panel EP (A/PL)+1 and key T2 (top right) that of entrance panel EP (A/PL)+3.

Call to the floor control; A and PL are the address (two digits) of the handset to call.

Control to switch on the staircase lights; A and PL are the address (two digits) corresponding to the handset which controls the lights.

Configurator M value

1

2

3

9) Mode with SPE=8 - Sound system

This mode is used to control the Sound system amplifiers and sources.

Configuring A, PL/PF and M correctly the following functions are performed:

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

NOTE (*):

M = 1-4 indicates the source to be activated before switching the amplifier ON. If M = 0 source 1 is ON without first switching the sources OFF (follow-me mode)

In all the SPE = 8 modes, the LIV1, LIV2 and I housings are not configured.

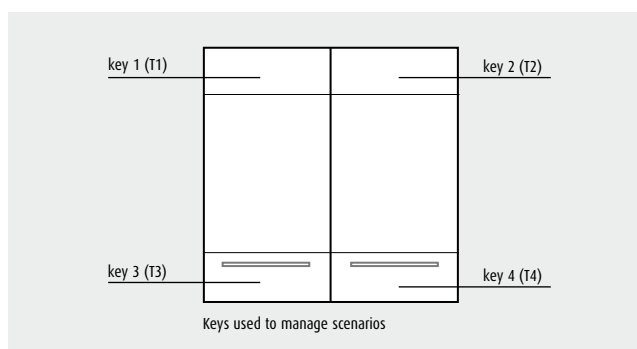
Example:

- 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 3.

In sound system mode the keys on the special control perform the following functions:

- 1) Pressing T1 quickly the following sequence is sent:

- ON of the sources, source 1 is switched ON only if M=0;
 - ON of the amplifier
- 2) When T1 is pressed for a long time:
 - for point-to-point controls if the amplifier is already switched on only the volume is adjusted (VOL+); if the amplifier is off the switching ON sequence is performed first;
 - for Room, Unit and General controls only the volume is adjusted.
 - 3) If T3 is pressed for a long time the volume is adjusted (VOL-). If it is pressed quickly it sends the Off control to the amplifier.
 - 4) Pressing key T2 changes the source.
 - 5) Key T4 is the control for the active source.



10) Mode with SPE=9 - advanced dimmer functions - version 0/1 - Automation

Function which can be performed

Selecting the SOFT-START and SOFT-STOP speed (see table below) and selecting the fixed adjustment level from 1% to 99% by means of housings LIV1=0 - 9 and LIV2=0 - 9, according to the table given for SPE=5. The management is ON at the level selected with the upper key and OFF with the lower key. If LIV1=LIV2=0, on pressing the upper key quickly the control can perform ON (at the last level saved) and OFF with the lower key. With point-to-point controls only the adjustment is with a long press (upwards with the upper key and downwards with the lower key) on 100 levels at variable speed.

Configurator M value

0 - 9

11) Mode with SPE=ON - timer control

In this mode the control acts as timed control. To use this special control as a timed control the configurators have the following meaning:

M becomes M1

LIV1 becomes M2

LIV2 becomes S

Configure housings M1 and M2 to define the timing minutes and S for the timing seconds with 5-second steps; see the table.

If M1=M2=S=9 a control is sent with 0.5 second timing. If M1=M2=S=0 the control is not timed and works in cyclic ON-OFF on the pushbutton at the bottom left. By selecting the subkeys correctly just timing controls can be sent, or with the two right keys, the usual ON, OFF or dimmer adjustment controls.

S value (LIV2)	Time in seconds
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 number of the auxiliary channel which activates the control. When the device receives a message sent on the AUX channel indicated it sends the control for which it is configured as if the control key had been pressed.