AXOLUTE
NIGHTER and WHICE control

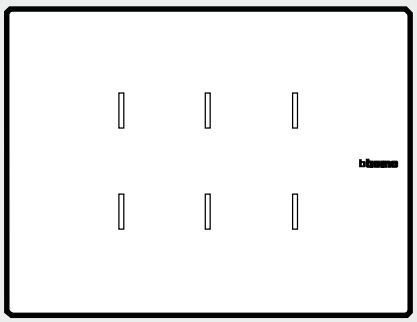
HD4657M3 - HC4657M3 - HS4657M3
HD4657M4 - HC4657M4 - HS4657M4

Description

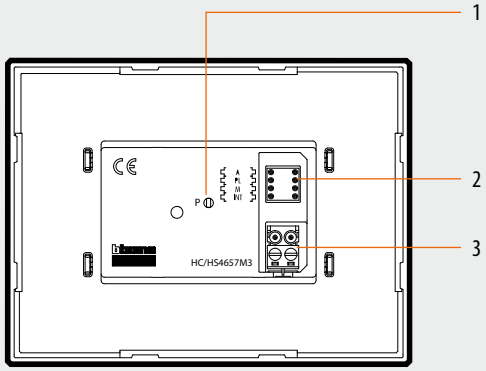
The Nighter and Whice control is a control where the traditional pushbuttons are replaced by capacitive sensors.The device can be used to perform the functions typical of a special SCS control by simply moving a finger close to the surface. It is produced in the 3 and 4 module flush mounted version, 6 and 8 keys respectively. Each zone corresponding to a key is marked at the centre by a light blue LED. When the user moves a finger close to the zone, its intensity increases sensibly, and remains so until the finger is moved away again. The brightness level of the LEDs can be changed using the appropriate adjustment pushbutton.
The Nighter and Whice control can operate in 4 different ways: self-learning, scenarios, swivelling, CEN.

- **The self-learning mode** (cyclic or non-cyclic) allows to associate to each key most of the typical automation system, sound system, video door entry system (staircase light, open-door, call to the floor, door lock, and cycling of cameras) functions, in addition to auxiliary controls.
- **The scenario mode** can be used to recall, program and delete 6 scenarios of a scenario module.
- **The swivelling mode** can be used to drive the 3 or 4 consecutive light points or rolling shutters (or rooms or groups).
- **The CEN mode** enables using the control with the scenario programmer item MH 200.

In order to clean the device, it is possible to temporarily disable the sensitive zones by pressing two diagonally opposite zones at the same time. The LEDs will flash in sequence. Normal operation is automatically reinstated after 10 seconds.



Front view



Rear view

Technical data

Power supply from SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Max absorption HD/HC/HS4657M3:	20 mA
Max absorption HD/HC/HS4657M4:	25 mA
Operating temperature:	0–40 °C

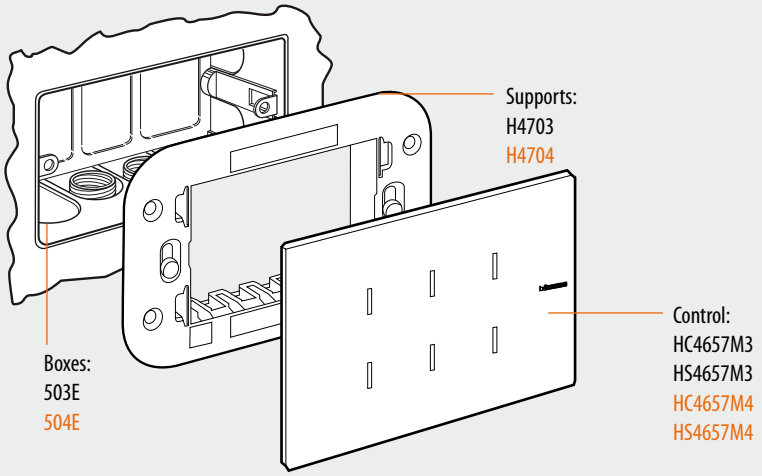
Installation

Nighter and Whice can be easily wall mounted using the following items, available to order:

- for the 3-module control: box, item 503E, and screw support, item H4703
- for the 4-module control: box, item 504E, and screw support, item H4704

Legenda

1. LED intensity programming and adjustment pushbutton
2. Configurator socket
3. BUS

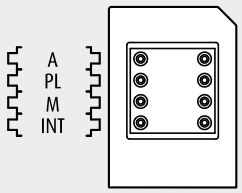


BT00110-d-UK

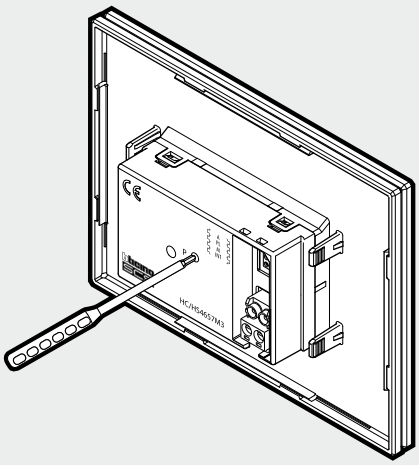
Configuration

The configuration of the Nighter & Whice control can be made in two different modes:
- PHYSICAL CONFIGURATION: by connecting the physical configurators to their sockets;
- VIRTUAL CONFIGURATION: the control can be configured remotely, when no physical configurators are available. (For the details refer to the Virtual Configuration).

Regardless of the mode, an A/PL address must always be assigned to the control.



A	room
PL	Light point
M	mode
INT	LED display mode



For the activation of the programming pushbutton and the LED adjustment, only use the screwdriver provided

1) Self-learning mode M=0

Possible function	Value configurator in M
This operating mode can be used to associate one individual control to any key of the device. It is possible to create, delete or change each control. The device may be configured using any A/PL address already present in the system, or a unique address not used by other devices.	0

Programming the Keys

To associate a different control to each key, proceed as follows:
1) Press and release the key on the back, the LEDs come on in succession;
2) Lightly touch the key to be programmed within 20 seconds: he LED will start flashing, confirming that the programming mode is active;
3) Set up the control you want to associate to the key using the controls and/or corresponding actuator. The LEDs start flashing in succession
4) You can now repeat 2) and 3) for all keys, even for a key that has already been associated, in case you want to change it;
5) Press the pushbutton to exit programming, or wait 20 seconds to exit programming automatically.

Deleting the programming of the keys

1) Press and release the key on the back, the LEDs come on in succession;
2) Within 20 seconds press and hold down for 4 seconds the key for which programming is to be cancelled; from now on, no controls will be activated when this key is pressed, until the key is programmed again.
3) The corresponding LED flashes for 4 seconds in alternative to the others, after which it will be possible to repeat point 2, to delete other programming sequences;
4) Short press the pushbutton, or wait 20 seconds to automatically exit delete programming.

NOTE: To cancel the programming of all keys at the same time press and release the key on the back. The LEDs will come on in succession. Press the pushbutton on the back again, and hold it down for 10 seconds: all LEDs will flash for about 4 second to confirm that all programming has been deleted.

2) Non-cyclical self-learning mode M=6

Possible function	Value configurator in M
This mode is a variant of the self-learning mode **(M=0)**, in which, however, the keys never work cyclically." Therefore, if for example, the ON of an actuator or dimmer is learnt, the couple of keys is configured automatically to switch on or increase the light intensity level for the upper key, and switch off or decrease the level of intensity for the lower one. If, on the other hand, a single function is learnt (e.g. recalling of a scenario), the other key of the pair remains without function, or retains the previous function. The device may be configured using any A/PL address already present in the system, or a unique address not used by other devices.	6

3) Scenario mode M = 1 – 4

Possible function	Value configurator in M
This operating mode is useful if the system includes a scenario module, item F420. The combination is ensured by assigning to both items the same address, identified by A=0-9 and PL=1-9. The user may create, delete or change the scenarios saved in the scenario module, and can recall them using the keys. With this procedure it is possible to save up to 16 scenarios using two 8-key devices or three 6-key devices .	1 – 4

The following table shows the correspondence between the number of the scenario saved in the scenario module, and the keys of the control in the possible configurations:
3 module control (6 scenarios)

No. of the key	M=1	M=4	M=3
Key 1	Scenario 1	Scenario 7	Scenario 13
Key 2	Scenario 2	Scenario 8	Scenario 14
Key 3	Scenario 3	Scenario 9	Scenario 15
Key 4	Scenario 4	Scenario 10	Scenario 16
Key 5	Scenario 5	Scenario 11	
Key 6	Scenario 6	Scenario 12	

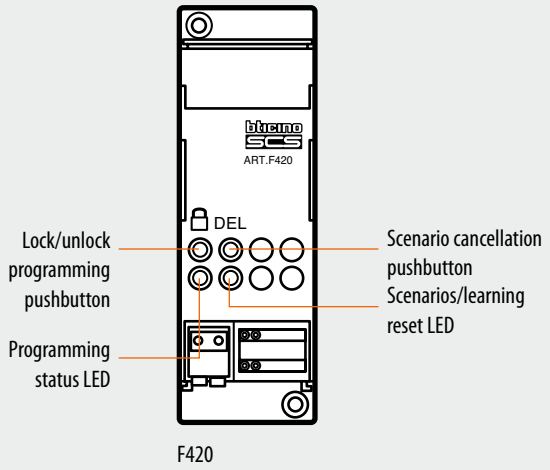
4 module control (8 scenarios)

No. of the key	M=1	M=2
Key 1	Scenario 1	Scenario 9
Key 2	Scenario 2	Scenario 10
Key 3	Scenario 3	Scenario 11
Key 4	Scenario 4	Scenario 12
Key 5	Scenario 5	Scenario 13
Key 6	Scenario 6	Scenario 14
Key 7	Scenario 7	Scenario 15
Key 8	Scenario 8	Scenario 16

Programming a scenario

For the programming of the scenario, the procedure is as follows:

1) The self-learning configuration of the scenario module, item F420, must be enabled (to do so press the self-learning pushbutton, so that the corresponding LED turns green; if the LED is red, self-learning is disabled);
2) Press and release the key on the back; the LEDs of the keys enabled and programmed for the scenario function will flash (1 sec. ON and 1 sec. OFF);
3) Touch the key corresponding to the scenario to be programmed: the LED will start flashing (upon receiving the update of the scenario module), confirming that programming mode is active;
4) Set the scenario using the controls and/or actuators;
5) Press the pushbutton to exit programming: the LEDs flash in succession, it is now possible to repeat points 2, 3 and 4 for all scenarios, including those keys that have already been associated, if they need changing;
6) Press the pushbutton to exit programming, or wait 20 seconds to exit programming automatically.



F420

Cancelling a scenario

1) The scenario module, item F420 must be in configuration mode with self-learning enabled;
2) Press and release the key on the back, the LEDs come on in succession;
3) Within 20 seconds press and hold down for 4 seconds the key of the scenario to be cancelled; ;
4) The LEDs for the deleted key of the device will flash for 4 seconds. It is now possible to repeat the instruction at point 2 to delete other programs. .
5) Briefly press the pushbutton, or wait 20 seconds to automatically exit delete programming mode.

NOTE: the entire memory can only be reset from the scenario module: press and hold down the "DEL" key for 10 seconds after enabling programming on the scenario module.

4) Swivelling modes M=0/I; ↑↓; ↑↓M

These modes enable quick installation without the need for learning procedures or scenario modules, allowing control of 4 or 3 consecutive light points or rolling shutters. The **A PL** address is the light point or rolling shutter controlled by the first pair of keys. The subsequent pairs control the subsequent light points or rolling shutters. If the configurators **Amb** or **Gr** are connected to **A**, in the same way the 4 or 3 pairs of keys control consecutive rooms or groups, starting from the one indicated by the configurator in **PL**.

NOTE: the maximum value of PL is 6 for the 4 module version, and 7 for the 3 module version.

Possible function	Value configurator in M
ON/OFF control: 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; for the other controls only the ON/OFF functions are performed	0/I
Control (UP-DOWN for rolling shutters): up-down control to end of stroke	↑↓
Monostable control (UP-DOWN for rolling shutters): up and down control for the time the key is pressed	↑↓M

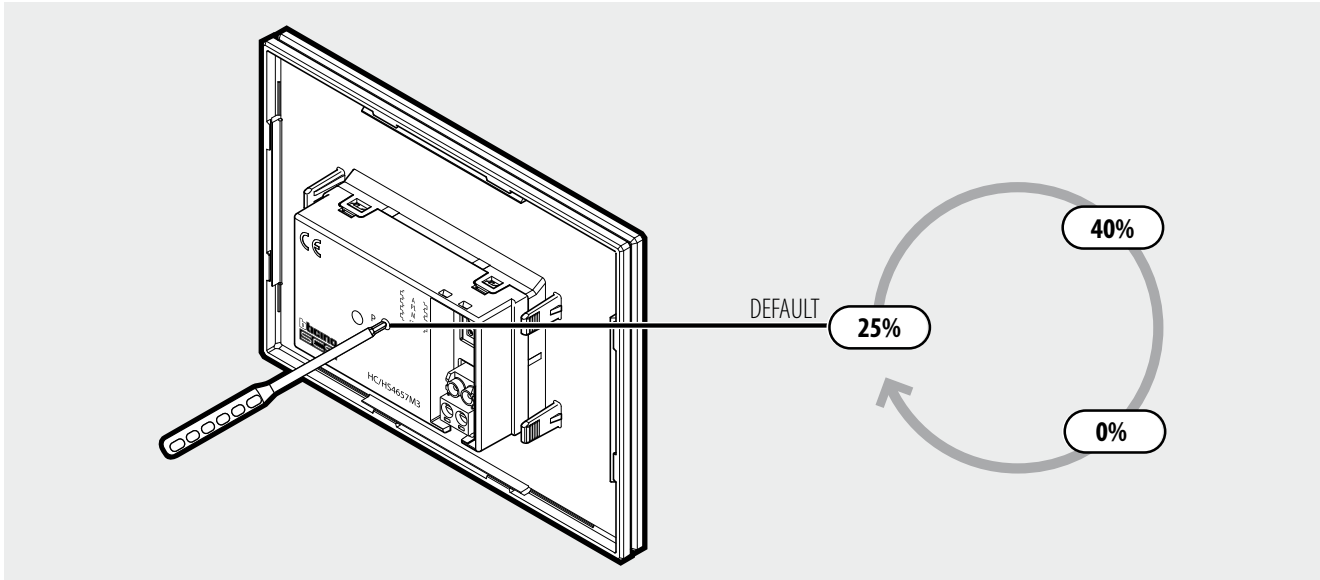
5) Scenario programmer mode, M=CEN

The association of a scenario configured in the scenario programmer MH200N and the corresponding Nighter & Whice control activation keys, is performed during the programming of the scenario itself using the software TiMH200N.

Possible function	Value configurator in M
Always assign to the control a specific A/PL address on the system (not to be used by any other device installed on the BUS). The A=0, PL=0 configuration cannot be accepted. This operating mode can only be used if the system includes a scenario programmer (MH200N).	CEN

6) Selecting the intensity of the LEDs

Once the device has been configured, it is possible to adjust the LED intensity by pressing and holding down (t>2 sec.) the pushbutton on the back. The pushbutton operates on 3 intensity levels: starting from the default value (25%), the intensity changes every 2 seconds, showing the 3 levels that can be set, as per the following drawing. To select the desired level simply release the pushbutton. Using the virtual configuration, the LED intensity may be adjusted to 10 different levels.



If the user has decided that the keys should lit up when pressed (status return), the brightness level will depend on the adjustment of the LEDs as shown below:

LED intensity level	status return intensity
25%	65%
40%	70%
0%	20%

7) LED display selection mode – SET position
Using the SET configurator it is possible to select:
- if in the idle conditions the unused/not configured LEDs should stay off or on;
- if the LED should come on or not when the corresponding key is pressed (status return); for optimum status return effect, it is recommended that the LED brightness level is kept low.
- if the "fade" effect on the lighting pushbuttons should be enabled or disabled.

Configurator in the SET socket	Behaviour
0	• LED on even if the key has not been configured • No status return • Fade effect enabled
1	• LED on even if the key has not been configured • No status return • Fade effect disabled
2	• LED on only if the key has been configured (not configured -> LED off) • No status return • Fade effect enabled
3	• LED on only if the key has been configured (not configured -> LED off) • No status return • Fade effect disabled
4	• LED on even if the key has not been configured • Status return enabled • Fade effect enabled
5	• LED on even if the key has not been configured • Status return enabled • Fade effect disabled
6	• LED on only if the key has been configured (not configured -> LED off) • Status return enabled • Fade effect enabled
7	• LED on only if the key has been configured (not configured -> LED off) • Status return enabled • Fade effect disabled

Once the device has been installed, wait two minutes for the self-calibration procedure to be completed. During this period, controls may be automatically sent to the system.