

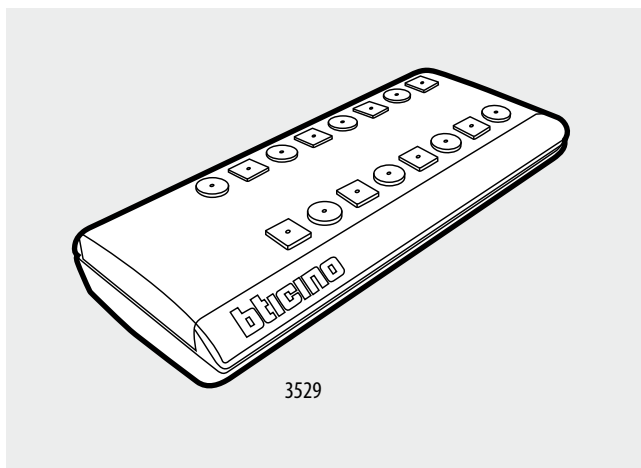


IR receiver

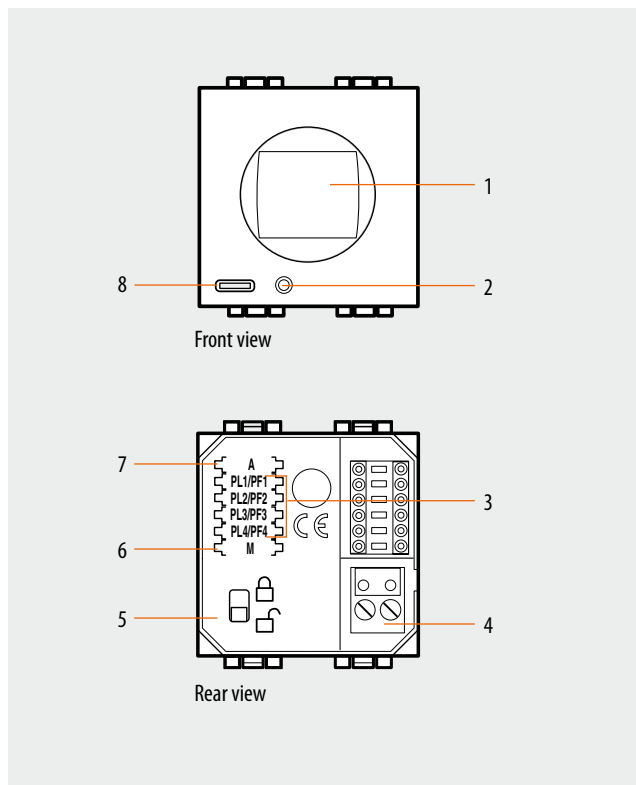
HD4654 - HC4654 - HS4654 - L4654N
N4654N - NT4654N - AM5834

Description

The receiver enables adding or replacing the manual control with an infrared remote control item 3529. It is possible to associate to the remote control pushbuttons controls intended for 1-relay actuators for single loads and 2-relay actuators for double loads (rolling shutter motor etc.), manage scenarios, as well as sound system and video door entry systems. In addition to the IR receiving lens, the front of the device shows a programming pushbutton and a notification LED, to confirm that the IR signal sent by the remote control has been received, and notification of the programming procedure.



3529



Technical data

Power supply from SCS BUS: 27 Vdc
 Operating power supply with SCS BUS: 18 – 27 Vdc
 Absorption: 8.5 mA
 Operating temperature: 5 – 35 °C
 Size: 2 flush mounted modules

Legend

1. Receiving lens
2. Programming/reset pushbutton
3. Channel selection
4. BUS
5. Two-way switch, to enable programming
6. Operating modes
7. Room number receiving the control
8. LED

Configuration

The IR receiver can be set up for 5 different operating modes depending on the configuration of positions A, PL1, PL2, PL3, PL4 and M:

Mode	M	Possible function
A - remote control	1 – 4	Repeating of 4 generic controls (ON/OFF, UP/DOWN) with the 4 remote control keys. The desired control are saved in the receiver during installation by connecting the configurators in the A, PL1-PL4 and M position. The modification of the preset functions will require the reconfiguration of the IR receiver.
B - advanced scenarios	CEN	Activation of scenarios managed by the scenario programmer item MH200
C - remote self-learning	none	Repeating of generic controls (ON/OFF, UP/DOWN) with the remote control keys. In this case the receiver saves the controls by performing a self-learning procedure. The customer can change the succession and the controls saved to be recalled with the remote control at any time.
D - scenario module control	6	Management with the remote control of a maximum of 16 recorded scenarios in the scenario module item F420.
E - Sound system	9	Management using the remote control of the amplifier to be controlled.

BT00071-b-UK

1) Mode "A" (remote control) M = 1 – 4

This mode lets the user associate generic controls (ON/OFF, UP/DOWN) intended for single loads or double loads to the remote control keys.

The correspondence between the remote control keys and the loads controlled is determined in the installation phase by the configuration of positions A and PL 1 to PL 4 of the IR receiver, as shown in the table below. The following can be associated to the remote control pushbuttons:

- Point-point controls, i.e. intended for single or double loads (rolling shutter motor) whose address is specified by configurator 1 to 9 in positions PL 1 to PL 4. The various operating modes are determined by the association of the configurators to the PL positions.

- Controls intended for actuators for single and double loads belonging to the room defined with configurator 1 to 9 in position A. In this case the operating modes are defined by the configurators marked by the graphics of the function performed, connected to positions PL 1 to 4.

Function	Type of control	Position A	Position PL1/PF1	Position PL2/PF2	Position PL3/PF3	Position PL4/PF4
Cyclical ON/OFF with short pressure + adjustment (dimmer)	Light point in the room indicated in A	1 – 9	1 – 9	1 – 9	1 – 9	1 – 9
Cyclical ON/OFF	Room control ²⁾	1 – 9	AMB	AMB	AMB	AMB
Rolling shutter UP/DOWN ¹⁾	Light point n the room indicated in A	1 – 9	1 – 9	1 – 9		
				1 – 9	1 – 9	
					1 – 9	1 – 9
			1 – 9			1 – 9
			1 – 9		1 – 9	
Monostable rolling shutter UP/DOWN ¹⁾	Room control ²⁾	1 – 9	↑↓M	↑↓M		
				↑↓M	↑↓M	
					↑↓M	↑↓M
			↑↓M			↑↓M
			↑↓M		↑↓M	
				↑↓M		↑↓M
UP/DOWN rolling shutter to end of stroke ¹⁾	Room control ²⁾	1 – 9	↑↓	↑↓		
				↑↓	↑↓	
					↑↓	↑↓
			↑↓			↑↓
			↑↓		↑↓	
ON control	Room control ²⁾	1 – 9	ON	ON	ON	ON
OFF control	Room control ²⁾	1 – 9	OFF	OFF	OFF	OFF

1) The two PL positions must have the same configurator. The UP control is associated to the first PL position and the DOWN control with the second PL position.

2) The control is intended for devices belonging to the room indicated in A.

Example 1: if on the receiver configurator 7 is connected to positions PL2 and PL3, the remote control operates double actuator No. 7 of the room indicated in A, raising the rolling shutters with pushbutton 2 and lowering them with pushbutton 3.

Example 2: if on the receiver configurator ↑↓ is connected to positions PL2 and PL3, and configurator 2 is connected to position A, the remote control operates all the actuators in room 2, raising the rolling shutters with pushbutton 2 and lowering them with pushbutton 3.

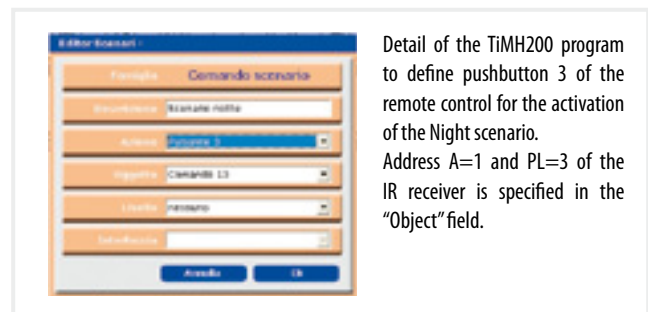
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Up to 4 IR receivers can be installed in the room considered. They can manage maximum 16 separate controls.
The correspondence between the channels of a remote control and the respective IR receiver is established by configuring position M of the IR receiver correctly.

Configurator in M		Configurator in M	
CH1	1	CH9	3
CH2		CH10	
CH3		CH11	
CH4		CH12	
CH5	2	CH13	4
CH6		CH14	
CH7		CH15	
CH8		CH16	

2) Mode "B" (advanced scenarios) M=CEN

This mode uses the IR remote control item 3529 as "scenario control" to activate one or more advanced scenarios saved in the Programmer item MH200.
The IR receiver must be also configured in positions A and PL using the numeric configurators for the definition of the address in the system.
The association between one or more remote control pushbuttons (maximum 6) with the scenarios created and saved in the Programmer item MH200 is performed when creating the scenario itself using the TiMH200 application.



Detail of the TiMH200 program to define pushbutton 3 of the remote control for the activation of the Night scenario. Address A=1 and PL=3 of the IR receiver is specified in the "Object" field.

3) Mode "C" (remote self-learning) M=0

This mode enables to associate a single control to any key of the remote control. Using only one receiver it is possible to associate up to 16 controls to a remote control. Configure the receiver with address A=0 and PL=1-9 that cannot be used by actuators.

Controls that the receiver can "learn":

- ON/OFF actuator (ON/OFFcyclical functioning with short pressure and adjustment with long pressure)
- Timed ON
- Flashing
- UP/DOWN rolling shutter (UP/DOWN until end of stroke)
- Lock/Unlock actuator
- ON/OFF lights - auxiliary, (Cyclical ON/OFF functioning)
- UP/DOWN rolling shutter auxiliary (UP/DOWN until end of stroke)
- Video door entry system (door lock and staircase lights)
- Sound system (management of the amplifier to be controlled)

To associate a different control to each of the remote control channels, follow the procedure below:

- 1) press the programming pushbutton of the receiver for 3 seconds: the LED will turn on steadily;
- 2) within 20 seconds press the key of the channel you want to program on the remote control: the LED will begin to flash, hence indicating the activation of the programming mode;
- 3) set up the control you want to associate to the remote control key using the controls and/or corresponding actuator: the LED will turn on steadily;
- 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 key to exit the programming mode: the LED will turn OFF.

To cancel the programming of one of the remote control channels, follow the procedure below:

- 1) press the programming pushbutton for at least 8 seconds: the LED will turn on steadily after 3 seconds; after another 5 seconds, it will turn OFF; release the pushbutton within 4 seconds: the LED will turn on steadily;
- 2) within 20 seconds press the key of the channel you want to cancel on the remote control: The LED will start flashing quickly for about 4 seconds, thus confirming the cancellation;
- 3) from now on, the cancelled key will no longer activate any control until it is re-programmed.

To cancel the programming of all remote control channels simultaneously, press the programming pushbutton for about 12 seconds: the LED will turn on steadily after 3 seconds; it will turn OFF after another 5 seconds; after another 4 seconds, it will start flashing quickly for about 4 seconds, thus confirming the cancellation of all programming conditions.

NOTE: with the two-way switch in the "closed padlock" position programming and cancelling the IR receiver are forbidden.

4) Mode "D" (Scenario module control) M=6

This mode enables creating, deleting or changing the scenarios saved in the scenario module, item F420, and to recall them using the remote control. The procedure lets you store up to 16 scenarios using all 16 channels of the remote control.

To program, change or delete a scenario, the programming of Module item F420 must be enabled, confirmed by the programming status LED turning green (press the lock/unlock key for at least 0.5 seconds), and the two-way switch on the back of the IR receiver must be in the "padlock open" position. Follow the procedure below:

- 1) press the programming pushbutton of the receiver for 3 seconds: the LED will turn on steadily; Release the pushbutton;
- 2) within 20 seconds press the key of the scenario you want to program on the remote control: the LED will begin to flash, hence indicating the activation of the programming mode;
- 3) set the scenario using the controls and/or actuators;
- 4) press the key to exit the programming mode: the LED will turn OFF;
- 5) repeat 1) and 4) for all the scenarios you want to program.

5) Mode "E" (Sound system) M=9

In the Sound system, the IR receiver can control up to 4 amplifiers.

The control is always in "follow me (*)" mode, and the functions that can be performed are:

- **Key A:** With a short pressure, the "ON" control is sent. An extended pressure will increase the volume
- **Key B:** With a short pressure, the "OFF" control is sent. An extended pressure will decrease the volume
- **Key C:** cycling of the radio stations saved, or CD track change
- **Key D:** cycling of the sources

To cancel a scenario, follow the procedure below:

- 1) Press the programming pushbutton of the receiver for 8 sec.: the LED will turn on steadily after 3 seconds; it will turn OFF again after another 5 seconds; release the key within 4 seconds: the LED will turn on steadily;
- 2) within 20 seconds press the key of the scenario you want to cancel on the remote control; when the scenario module sends the deleting confirmation, the LED will start flashing quickly for about 2 seconds and then it will turn OFF;
- 3) repeat 1) and 2) for all the scenarios you want to cancel.

The entire memory can only be reset from the scenario module. To prevent the possibility of programming or deleting the scenarios from the IR receiver, move the two-way switch on the back to the "lock closed" position.

NOTE: configure the device with address A=0 and PL=1-9 which cannot be used by actuators. For example, if the scenario module is configured with A=0 and PL=3, the IR receiver must be configured with A=0; PL=3 and M=6.

The association of the A-B-C-D keys to those of the remote control is performed as shown in the table:

	Key A	Key B	Key C	Key D
PF1	Ch 1	Ch 2	Ch 3	Ch 4
PF2	Ch 5	Ch 6	Ch 7	Ch 8
PF3	Ch 9	Ch 10	Ch 11	Ch 12
PF4	Ch 13	Ch 14	Ch 15	Ch 16

Where:

- PF1 = 0 – 9 address of the 1st amplifier to control
- PF2 = 0 – 9 address of the 2nd amplifier to control
- PF3 = 0 – 9 address of the 3rd amplifier to control
- PF4 = 0 – 9 address of the 4th amplifier to control
- A = 1 – 9 room receiving the control

NOTE (*): the follow-me mode allows to have the same music in another room after switching OFF the amplifier of the room previously occupied, and switching ON the one in the current room.