2-module flush-mounted actuator 16A

HC4672N   HS4672N   HD4672N
L4672N   N4672N   NT4672N

Description

The device is an actuator with 1 bistable relay sensor with local pushbutton for load forcing/local control for the Automation and/or Load control management functions.

In load control mode:
The actuator will be given a priority indicating the tripping order that will be followed by the F521 load control central unit (e.g. Priority 1 will be the first load disabled if the threshold is exceeded). This priority coincides with the address that will be used in all the configuration software programs. Using the forcing pushbutton it will be possible to re-enable the load for 4 hours after DISABLING by the central unit, or remove the load forcing previously set.

In automation mode, the actuator can perform the following functions:
- All operating modes that can be configured on the control devices, with the exception of those requiring the use of two interlocked relays;
- Possibility of group configuration (G)
- Additional modes using the M configuration socket.

In mixed load control and automation mode, the following rules are followed:
The local button performs the load control management function (forcing/end of forcing)
- If the load is ENABLED or FORCED, the status of the relay follows the commands of the Automation system.
- If the load is DISABLED by the load control central unit, the status of the relay does not follow the commands of the Automation system, but can only be re-enabled by a command, ENABLING or FORCING, from load control management.
During disabling, the actuator keeps the statuses requested by the Automation commands in memory. After RE-ENABLING the relay is placed in the status required by the last automation command.
This function has been conceived for applications where the load control management function is implemented, with the need, via automation commands, of performing hourly load scheduling. If during the DISABLING stage the relay is switched OFF due to the scheduling settings, when re-enabling takes place it will stay switched OFF.

The bistable relay enables preserving the status of the load even if there is no voltage on the SCS BUS (and subsequent device reset).
The device consists of 2 modules, so that it can be installed in supports of the Living, Light, Light Tech and Axolute series, and is provided with a bay for 6 configurators: A, PL, G, M, P1, P2.
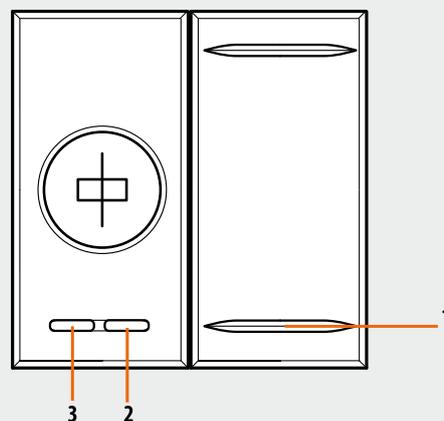
Front view

Rear view

Technical data

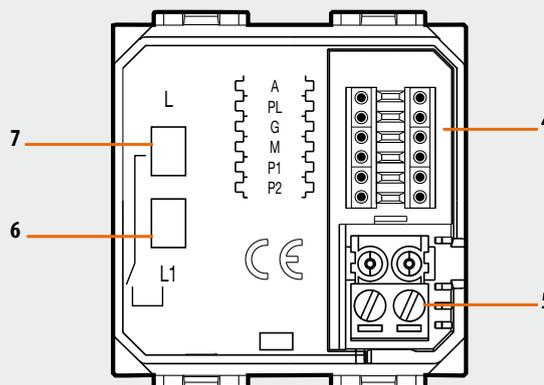|	
Operating power supply with SCS BUS:	18 – 27 Vdc
Current draw:	10 mA max
Operating temperature:	0 – 40°C
Power/Consumption of driven loads:	Incandescent lamps and halogen lamps 10 A / 2300 W
	LED lamps and compact fluorescent lamps 500 W / Max 10 lamps
	Linear fluorescent lamps and electronic transformers 4 A / 920 W
	Ferromagnetic transformers 4 A cosφ 0.5 / 920 VA

Legend

1. Local pushbutton for load forcing/local control
2. Red LED
3. Green/red two-colour LED
4. Configurator socket
5. BUS connection
6. Load connection
7. Phase connection

Dimensions

2 flush-mounted modules

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Configuration

The device can be configured in two ways:
- PHYSICAL CONFIGURATION, inserting the configurators in position.
- Configuration via MYHOME_Suite software package, downloadable from www.homesystems-legrandgroup.com; this mode has the advantage of offering many more options than the physical configuration.

For a list of the procedures and their meanings, please refer to the instructions in this sheet and to the "Function Descriptions" help section in the MYHOME_Suite software package.

1.1 Addressing

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=0-9
	Lighting point	0-15	PL = 1-9
Groups		Group 1 - Group 10=0-255	G=0-9

1.2 Mode

1.2.1 Automation

Virtual configuration (MYHOME_Suite)		Physical configuration	
Function	**Parameter / setting**		
Master Actuator - Cyclical ON/OFF	Master	M=0	
Actuator as Slave. Receives a control sent by a Master actuator with the same address	Slave	M=SLA	
Pushbutton (ON monostable) ignores Room and General controls	Master PUL OFF Delay = 0	M=PUL	
Master Actuator with OFF control delayed on the corresponding Slave actuator. [1]	Master PUL OFF Delay = 1 - 255	M=1	1 minute
		M=2	2 minutes
		M=3	3 minutes
		M=4	4 minutes

To use the "Actuator as a slave with PUL function", to define the load to be controlled and the "closed/open" state of the relay after resetting the actuator, use MYHOME_Suite virtual configuration.

NOTE 1): Only for a point-point type control.
With the OFF control the Master actuator deactivates; the Slave actuator deactivates after the time set with the configurators has elapsed.
In the Off delayed mode, the master sends the Off command after a period of time set using the 1 - 4 configurator connected to M.

1.2.2 Load control command

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	**Parameter / setting**	
Priority	1-63	P1,P2: 01-63

To use "Phase" (Single, 1, 2, 3), to select the "Load Type" and to select the "Load status upon central unit enabling" use MYHOME_Suite virtual configuration.

LED signals according to the status of the actuator in automation mode:

Device status	Two-colour LED	Red LED
Load OFF	GREEN	OFF
Load ON	ORANGE	OFF

LED signals according to the status of the actuator in load control management mode:

Device status	Two-colour LED	Red LED
Enabled ON	ORANGE	OFF
Enabled OFF	GREEN	OFF
Forced	ORANGE flashing 1s/1s on GREEN	OFF
Disabled	GREEN	ON steady

3) Automation and load control management mode:

In positions P1 and P2 priority from 01 to 63 must be indicated, in A and PL you need to indicate the address of the device.

LED signals according to the status of the actuator in automation and load control management mode:

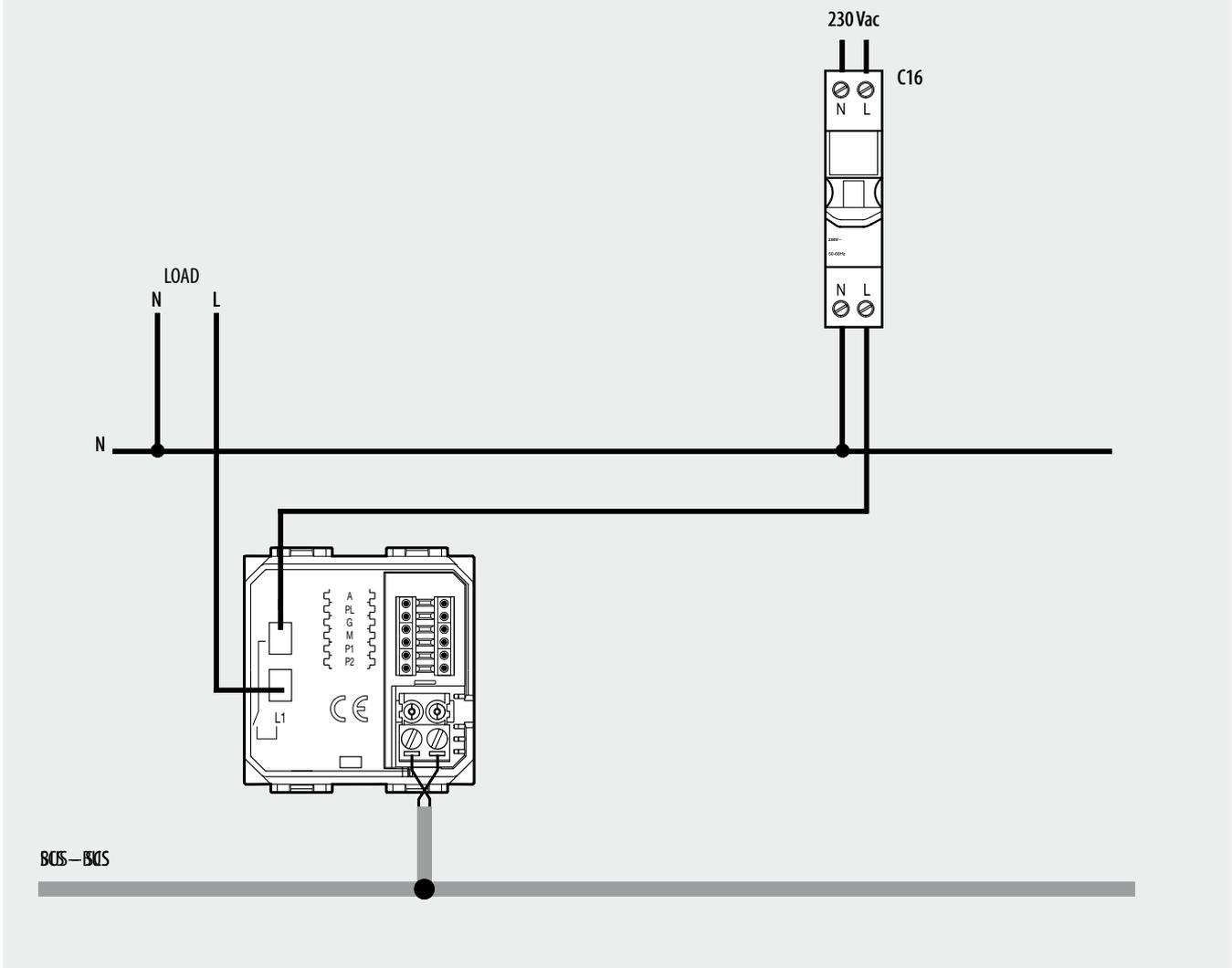| Device status	Two-colour LED	Red LED
Enabled + ON	ORANGE	OFF
Enabled + OFF	GREEN	OFF
Disabled	GREEN	ON steady
Forced + ON	ORANGE flashing 1s/1s on GREEN	OFF
Forced + OFF	ORANGE flashing 1s/1s	OFF

Common LED notifications:

Device status	Two-colour LED	Red LED
Not configured	ORANGE flashing 128 ms/128 ms on GREEN	OFF
Configuration error	ORANGE flashing irregularly on GREEN	OFF

Wiring diagrams

Actuator connection:

NOTE: For loads with current draw greater than 16 A add a supporting relay between the actuator and the load.