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2-module flush mounted actuator 16A

Description

The device is a 1 relay bistable actuator with local pushbutton for load forcing/local control intended for the Automation and/or Load Control Management functions.

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

In automation mode, the actuator can perform the following functions:
- all configurable operating modes on the control devices, with the exception of those involving the use of two interlocked relays;
- possibility of group configuration (G)
- additional modes using configuration housing M.

In mixed load control and automation mode, the following rules are followed:
The local pushbutton has load control management function (forcing/end 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 from the load control unit, the status of the relay does not follow the commands of the Automation system but can only be re-enabled by a command, an ENABLING or a FORCING operation using the load control unit.
While disabling is in progress, the actuator keeps in memory the states requested by the Automation commands. Upon Reactivation, the relay switches to the status required by the last automation command.
This function is designed for applications in which the Load Control Management function is implemented with the need for hourly load scheduling using automation commands. If during the DISABLE phase the relay is switched off as a result of a schedule, it will still remain switched off upon reactivation.

The bistable relay allows the load status to be maintained even in the event of a power failure on the SCS bus (and subsequent device reset).
The device consists of 2 modules, for installation in Living, Light, Light Tech and Axolute series supports, and has 6 configurator housings: A, PL, G, M, P1, P2.

NOTE: The Load Control function is available and supported only by MyHOME F460, F461 and Classe300EOS servers.
In case of existing installations with the MHS1 server, it is possible to guarantee the system upgrade and functional extension through the backup & restore function directly from H+P, without having to reconfigure the system from scratch.

Technical data

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Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption:	10 mA max
Operating temperature:	0 – 40 °C
Power / Absorption of the driven loads:	Incandescence 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

Dimensional data

2 flush mounted modules

Front view
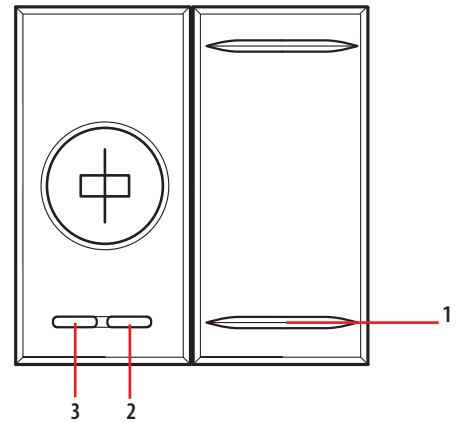
Rear view
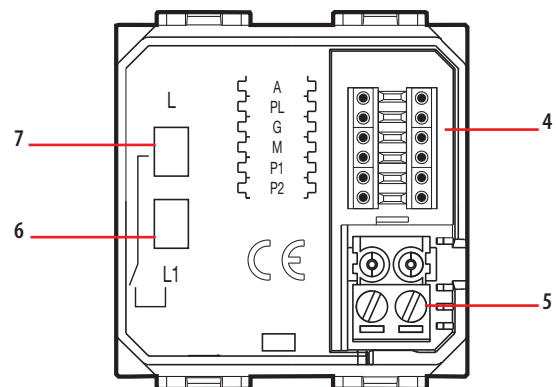
Legend

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

Configuration

When installed in a MyHOME system, the device can be configured directly from Home + Project following the App flow, making the process much more simple and immediate.
For device configuration and installation and for any other information, refer to the App or documentation that can be downloaded from the website:

www.homesystems-legrandgroup.com

Download App

+

Home + Project

• ANDROID: it requires Android 5.0 or later with access to Google Play

Google Play

• iOS: it requires an iPhone running iOS 12.0 or later

App Store

In addition, however, the following will continue to be guaranteed:
- The PHYSICAL CONFIGURATION, by connecting the configurators to the appropriate sockets (*).
- The configuration using the MyHOME_Suite software, which can be downloaded from the website www.homesystems-legrandgroup.com; this last type of configuration has the advantage of offering many more options when compared with the physical configuration (*).
For the list of modes and the corresponding meanings refer to the indications of this data sheet, and to the "Function description" section of the MyHOME_Suite software.

(*)
1.1 Addressing

Address type		Virtual configuration (MyHOME_Suite)	Physical configuration
Point-to-point	Point-to-point	0-10	A=0-9
	Light point	0-15	PL = 1-9
Gruppi		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	
The actuator as Slave. It receives a command sent by a Master actuator with the same address	Slave	M=SLA	
Pushbutton (monostable ON) ignores Room and General controls	Master PUL OFF delay = 0	M=PUL	
Master actuator with delayed Off command 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

When using the "Actuator as slave with PUL function", use the MyHOME_Suite virtual configuration to define the load to be controlled and the "closed/open" status of the relay after the reset of the actuator.

NOTE 1): Only for a point-to-point type command.
The Off command deactivates the Master actuator; the Slave actuator is deactivated after the time set with the configurators has elapsed.
In delayed Off mode, the master sends the Off command after a period of time set with configurator 1 - 4 inserted in M.

1.2.2 Load control command

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

When using "Phase" (Single, 1, 2, 3), to select the "Load Type" and to select the "load status upon enabling of the control unit" use the MyHOME_Suite virtual configuration.

LED notifications based on the status of the actuator in automation mode:

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

LED notifications based on 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 1 s/1 s on GREEEN	OFF
Disabled	GREEN	ON steady

3) Load control management mode and automation:

In positions P1 and P2 indicate the priority from 01 to 63; in A and PL indicate the device address.

LED notifications based on the status of the actuator in load control management and automation mode:

Device status	Two-colour LED	Red LED
Enabled + ON	ORANGE	OFF
Enabled + OFF	GREEN	OFF
Disabled	GREEN	ON steady
Forced + ON	ORANGE flashing 1 s/1 s on GREEEN	OFF
Forced + OFF	ORANGE flashing 1 s/1 s	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:
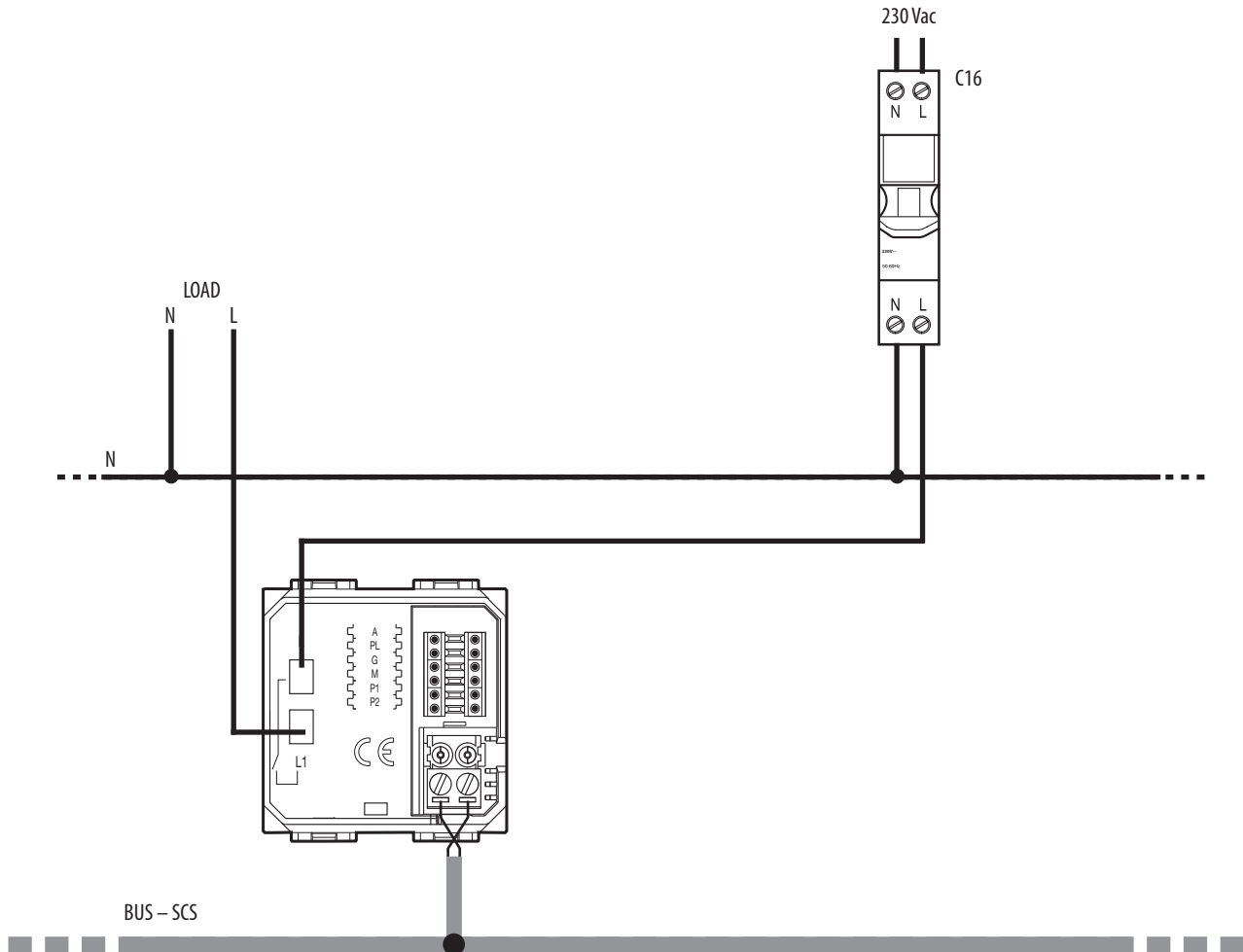
NOTE: For loads with absorption currents greater than 16 A, install a support relay between the actuator and the load.