BTICINO > Smart Home solutions > My Home > Light and Shutter automation

F411/4

4 independent relay actuator - for single, double and combined loads: 6 A resistive and 2 A for filament lamp, 500 W for motor reducers, 2 cos? 0.5 for ferromagnetic transformers, and 70 W for fluorescent lamps - logic relay interlock via configuration - 2 DIN modules

Technical features

Brand	BTicino
Rated voltage	27Vdc
Rated current	0,040A
Rated power VA	460VA
Rated power W	460W
N° of modules	2
Contact type	4
Series	MyHome

Documentation

Technical Data Sheet

  DWG drawing

Technical guide

Living Now english catalogue

Certificazioni

GROUP BRAND LEGRAND: | bticino | IME | Netatmo |

4 relay actuator 2A

Description

Actuator for installation in DIN rail distribution boards or switchboards. This device incorporates four independent relays with a common terminal for the activation of four loads, and includes local control pushbuttons for each individual load.

The device can be installed as part of a My Home system, and configured physically or virtually. In this case if two adjoining positions (e.g. PL2 and PL3) are assigned the same configurator, the actuator may set two of the four relays in interlocking mode, for the control of loads such as rolling shutter motors, curtain motors, etc. If all the PL positions have the same configurator, the actuator sets the four relays for the control of motorised shutters. When installed as a component of the Lighting Management system, specific configuration procedures are used (Plug&go, Project&Download).

Technical data

Power supply via SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Current draw:	40 mA
Number of outputs:	4x2 A
Dissipated power with max. load:	3.2 W[1]
Operating temperature:	(-5) – (+45) °C
Power/Consumption of driven loads:	

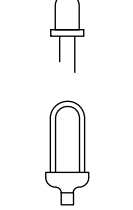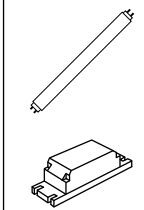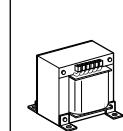|	Incandescent lamps Halogen lamps	Geared motors for rolling shutters	LED lamps Compact fluorescent lamps	Linear fluorescent lamps Electronic transformers	Ferromagnetic transformers
230 Vac	460 W	2 A	460 W	2 A	70 W	Max. 2 lamps	70 W	0.3 A	2 A cosφ 0.5	460 VA

Protection index:	IK04
Impact resistance:	IP20

NOTE: 1) The dissipated power indicated is that corresponding to the device with all the relays loaded at the maximum load.
With lower loads also the dissipated power is lower and may be calculated by means of the following formula: $P[mW]=140+400*N+10*[Ic1+Ic2+...IcN]$
P: dissipated power in mW, N: number of loaded relays, IcN: load current corresponding to the N relay.

Dimensions

Size: 2 DIN modules

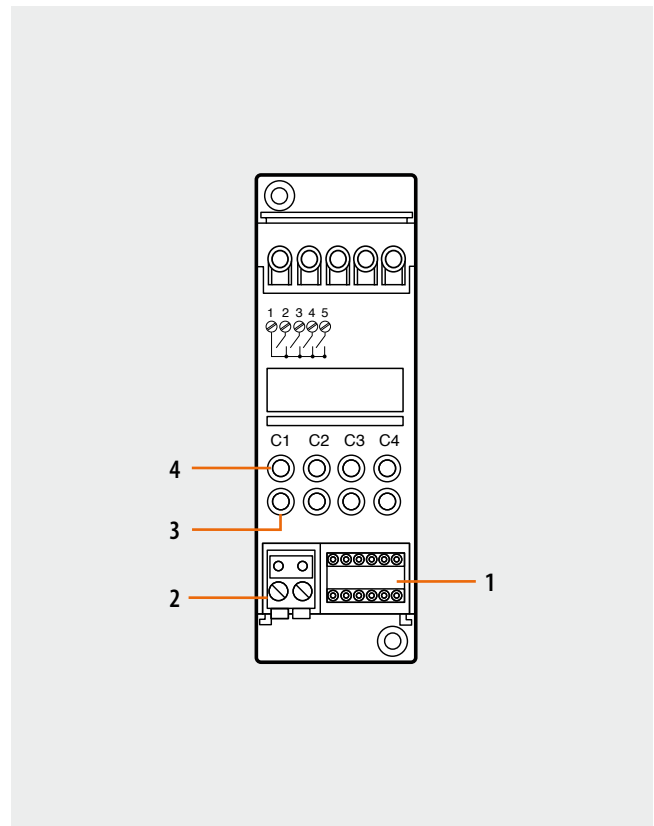## List of Functions

The device performs the following functions:
1. LIGHT SWITCH
2. SHUTTER AUTOMATION CONTROL
3. ROLLING SHUTTER AUTOMATION CONTROL

See the following pages for the configuration procedures.

Legend

1. Configurator socket (note that this must only be used in My Home systems with the physical configuration)
2. BUS connector
3. Load status LED
4. Load control button

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4 relay actuator 2A

Configuration

If the device is installed in a My Home system it 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.

When installed in a Lighting Management system, the actuator can be configured in the following ways:
- PLUG&GO
- PROJECT&DOWNLOAD

1. Light switch

1.1 Addressing

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

NOTE: To configure the "Group" address use MYHOME_Suite virtual configuration

1.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	**Parameter / setting**	
Master Actuator	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	M=PUL

To use the "Actuator as a slave with PUL function" and to adjust the "OFF delay", the "Type of load" (Actuator, Lamp, Valve, Differential Reset, Fan, Irrigation, Controlled Outlet, Lock) and the "Local button mode" (Cyclical, ON/OFF, ON-OFF, Pushbutton, Timed ON) use MYHOME_Suite virtual configuration.

2. Shutter automation control

2.1 Addressing

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

NOTE: To configure the "Group" address use MYHOME_Suite virtual configuration

2.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration		
Function	**Parameter / setting**			
Master Actuator	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	M=PUL		
Timed stop for shutter motor drives. The actuator switches off after the set time has elapsed. This mode is only operative if PL1=PL2=PL3=PL4 with relay interlocking in pairs.	1-60 seconds, 2-10 minutes, ∞	PL1=PL2=PL3=PL4	M=0	20 seconds
			M=1	15 seconds
			M=2	25 seconds
			M=3	60 seconds

To use the "Actuator as a slave with PUL function" and for the "Local button mode" (Cyclical, ON/OFF, ON-OFF, Pushbutton, Timed ON) use MYHOME_Suite virtual configuration.

3. Rolling shutter automation control

3.1 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

NOTE: To configure the "Groups" use MYHOME_Suite virtual configuration

3.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration		
Function	**Parameter / setting**			
Master Actuator	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	M=PUL		
Timed stop for rolling shutter motor drive. The actuator switches off after the set time has elapsed. This mode is only operative if PL...=PL...+1 (same configurators), therefore with the two relays interlocked.	1-60 seconds, 2-10 minutes, ∞	PL...=PL+1	M=0	1 minute
			M=1	2 minutes
			M=2	5 minutes
			M=3	10 minutes
			M=4	Until the motor's limit stop
			M=5	20 seconds
			M=6	10 seconds
			M=7	5 seconds
			M=8	15 seconds
			M=9	30 seconds

Wiring diagrams

Diagram for connecting light devices

N
L

1 2 3 4 5

L N   L N   L N   L N   L N

MIN 3 m

C1 C2 C3 C4

Diagram for shutter movement control

M1
~
Ap   C   Ch

M2
~
Ap   C   Ch

N

L

PL1 PL2 PL3 PL4

1 2 3 4 5

C1 C2 C3 C4

BUS
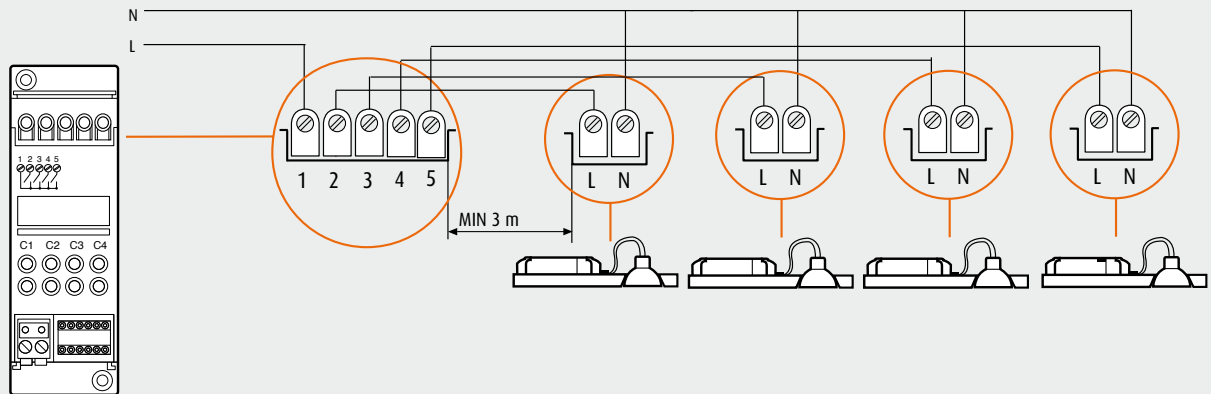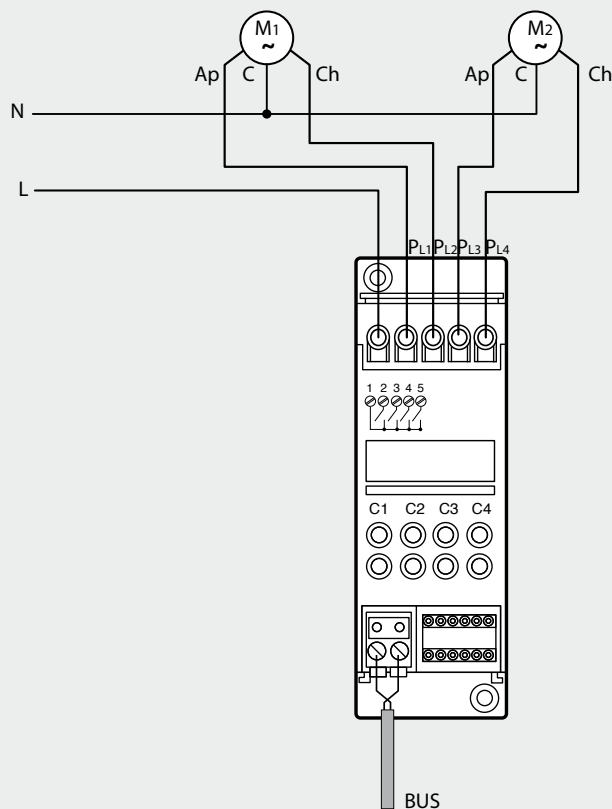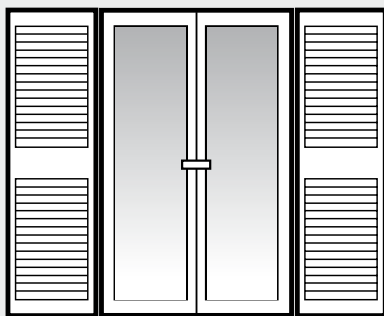
M1 = motor controlling the internal rabbet shutter
M2 = motor controlling the external rabbet shutter
PL1 and PL2 = contacts: they must be interlocked to each
other and must always be fitted to the
internal rabbet shutter
PL3 and PL4 = contacts: they must be interlocked to each
other and must always be fitted to the
external rabbet shutter

WARNING: configure PL1 = PL2 = PL3 = PL4

Operation:
- The opening of the shutter with external rabbet must start before the one with internal
rabbet. The opening of PL1 will start 3 seconds after the start of PL3.
- The closing of the shutter with external rabbet must start after the one with internal
rabbet. The closing of PL4 will start 3 seconds after the start of PL2.
- The total time for the full opening/closing of the shutters must be adjustable between 15
and 25 seconds. This adjustment is possible during installation, based on the size of the
shutters, to allow for strong winds.