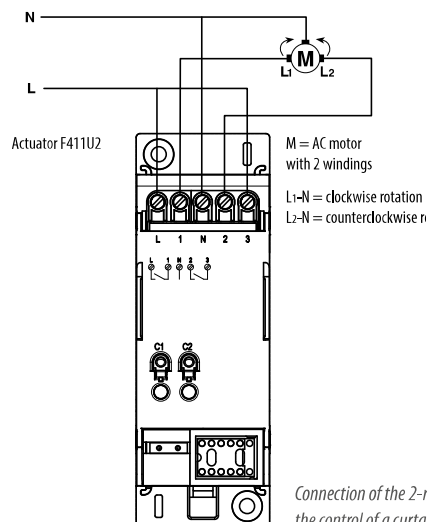


Actuator devices for shutters, curtains automation

The control of shutter and/or curtain motors can be made using:

■ **2 and 4-relay actuators** provided for ON/OFF control of the lighting and specially configured in "interlock" mode for operation in pairs of the relays.



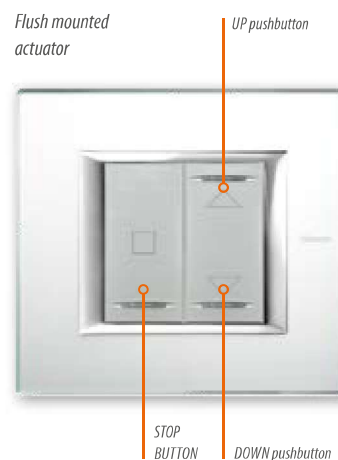
2 Relay actuator item F411U2



4 Relay actuator item F411/4

■ **actuator with 2 interlocked relays** for the control of standard motors with automatic calibration, standard motors with manual calibration and pulse motors. Used together with specific control devices for the management of shutters, the device gives the possibility of performing advanced functions, like the management of 100 different positions, the management of the 3rd limit switch (blade position adjustment), and saving a shutter position (Preset). If used with other generic control devices, it only performs the basic functions (UP and DOWN). Available in flush mounted version to be completed with key covers and 2-module DIN modularity.

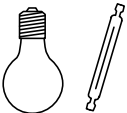

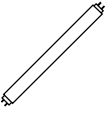

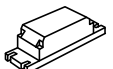
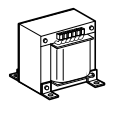
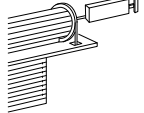
Preset function: In addition to the Monostable and Bistable UP/DOWN operating modes, by pressing the STOP pushbutton the control gives the possibility of moving the shutter to a specific position (Preset) saved by the actuator. During this mode of operation, the Preset LED will be on. The actuator is supplied with 9 preset positions, selectable by configuration; in addition to these, according to the user's requirements, it is however possible to set a new position through configuration. The Preset function can be managed even with the Scenario module. The actuator is also available in DIN modular version.




Actuator devices: actuators selection

The table allows identification of the actuator device depending on what it is to be used for, the electrical features of the load to be controlled and the installation features.

Warning: Unless otherwise specified in the instruction leaflet, a 10 A thermal magnetic protection must be fitted on the power line to the actuators.

CONTROLLABLE LOADS (230 Va.c. 50/60 Hz)							
Actuators	Type						
							
	Incandescent and halogen lamps energy saving	LED lamps	Linear fluorescent lamps ¹⁾	Compact fluorescent lamps	Electronic transformers ³⁾	Ferromagnetic transformers ^{2) 3)}	Motor reducers for shutters ⁴⁾
H/L4671M2 AMS851M2	2 A 460 W	70 W Max. 2 lamps	0.3 A 70 W	70 W Max. 2 lamps	0.3 A 70 W	2 A cosφ 0.5 460 VA	2 A 460 W
H/L4671/1 AMS851/1	6 A 1380 W	150 W Max. 3 lamps	0.65 A 150 W	150 W Max. 3 lamps	0.65 A 150 W	2 A cosφ 0.5 460 VA	- -
H/L4678	0.25 - 1.30 A 60 - 300 W	- -	- -	- -	- -	0.25 - 1.30 A 60 - 300 VA	- -
3475 3476	2 A 460 W	40 W Max 1 lamp	- -	40 W Max 1 lamp	- -	2 A cosφ 0.5 460 VA	- -
H/L4661M2 AMS861M2 F401	-	-	-	-	-	-	2 A 250 Va.c.
F411U1	10 A 2300 W	500 W Max. 10 lamps	4 A 920 W	500 W Max. 10 lamps	4 A 920 W	4 A cosφ 0.5 920 VA	- -
F411U2	10 A 1380 W	250 W Max. 4 lamps	4 A 230 W	250 W Max. 4 lamps	4 A 230 W	4 A cosφ 0.5 460 VA	2 A 460 W
F411/4	2 A 460 W	70 W Max. 2 lamps	0.3 A 70 W	70 W Max. 2 lamps	0.3 A 70 W	2 A cosφ 0.5 460 VA	2 A 460 W
F411/1NC	10 A 2300 W	500 W Max. 10 lamps	4 A 920 W	500 W Max. 10 lamps	4 A 920 W	4 A cosφ 0.5 920 VA	- -
BMSW1002	16 A 3680 W	2.1 A 500 VA	10 X (2 X 36 W) 4.3 A	1150 W 5 A	16 A 3680 W	16 A 3680 W	- -
BMSW1003	16 A 3680 W	2.1 A 500 VA	10 X (2 X 36 W) 4.3 A	1150 W 5 A	16 A 3680 W	16 A 3680 W	- -
BMSW1005	16 A 3680 W	2.1 A 500 VA	4.3 A 10X2X36W	5 A 1150 VA	16 A 3680 W	16 A 3680 W	- -

Notes:

- 1) Power factor corrected fluorescent lamps, energy saving lamps, discharge lamps.
- 2) In order to calculate the actual power of the load connected to the actuator, it will be necessary to take into account the transformer performance. For example, when connecting a dimmer to a 100 VA ferromagnetic transformer with 0.8 performance, the actual load power will be 125 VA.
- 3) The transformer must be loaded at its rated power, or in any case never below 90% of its rated power. It will be preferable to use a single transformer, rather than several transformers in parallel.
For example, it will be preferable to use one single 250 VA transformer with 5 x 50 W spotlights connected, rather than using 5 x 50 VA transformers in parallel, with one 50 W spotlight each.
- 4) The  symbol shown on the actuators refers to the shutter motor reducers.