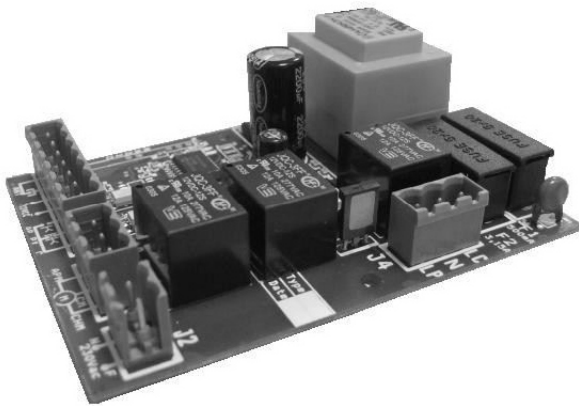


OPERATING AND INSTALLATION INSTRUCTIONS

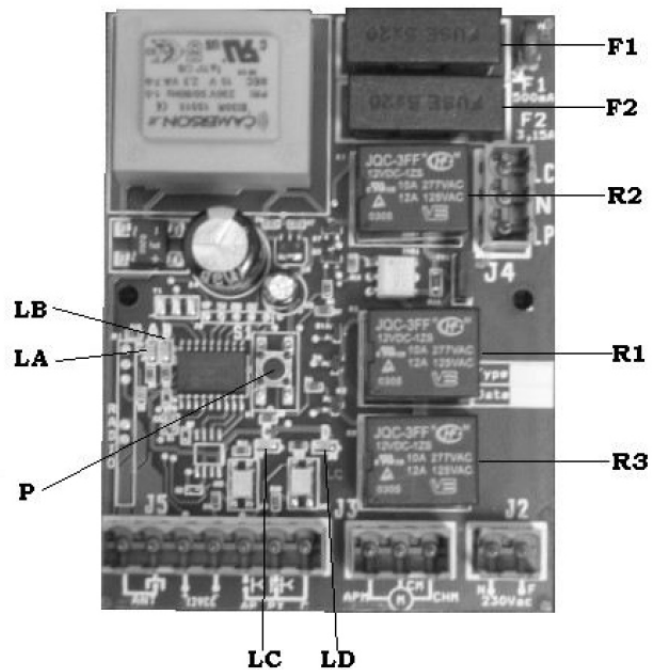


MINI CONTROL UNIT FOR TUBULAR MOTORS + 433.92 MHZ RECEIVER (23024010-N)

NEW ROLLING CONTROL UNIT (13301150-N)

The 23024010-N / 13301150-N control unit can be equipped with optional radio receiver with 433.92 MHz frequency approved for Coccinella Copy and Smart Copy transmitters. The transmitters are also used for programming the terminal.

- P Program button
- LA Program Led
- LB Program Led
- LC OPEN Led (green)
- LD Configurable input LED
- F1 500 mA logic fuse
- F2 3,15A motor fuse
- R2 Light courtesy relay
- R1 OPEN relay
- R3 CLOSE relay
- 12Vcc Power supply to photoelectric cell



RADIO SECTION

Receiving frequency
Intermediate frequency
Antenna input impedance
Sensitivity for a sent signal

433.92 MHz.
10.7 MHz Power frequency
50 Ω
>-100 dBm

LOGIC BOARD

Power
logic operation
Auxiliary devices output
Max consumption applicable to the auxiliary power output
Power Light courtesy
Power Blinking
Max switchable motori output
Max switchable light courtesy output
Max switchable light blinking output

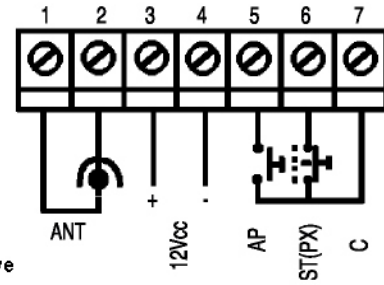
230 Vac
50-60 Hz
µC
12 Vcc

100 mA
230 Vac
230 Vac
600 W
100 W
25 W

TERMINAL BLOCK J5

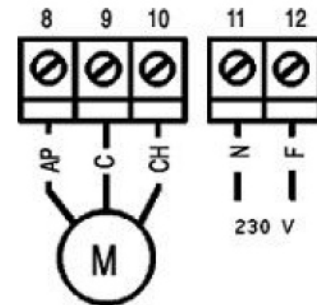
- 1 Antenna
- 2 Antenna ground
- 3 Power supply 12Vcc. (+)
- 4 Power supply 12Vcc. (-)
- 5 "AP" key
- 6 Input configuration (N.C.) or (N.O).
e.g. (STOP)- PHOTOELECTRIC CELL)-(CLOSE)-(ANEMOMETER)
- 7 Common

When programmed as a stop or photocell, the configurable input must be NC (negative)



TERMINAL BLOCK J2 E J3

- 8 Motor open
- 9 Motor common
- 10 Motor close
- 11 Power input 230Vac. Neutre
- 12 Power input 230Vac. Phase

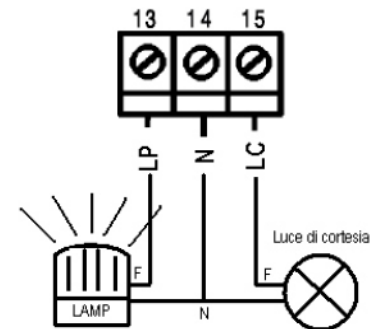


TERMINAL BLOCK J4

- 13 Blinking light 230 Vac phase.
- 14 Neutre.
- 15 Light courtesy 230 Vac phase

Attention: the escape blinking does not need of card flashes

To install a blinking fixed light



RADIO CONTROL PROGRAMMING KEY OPEN

(Only with inserted module)

- press the button P once (lighting LA)
- press the button P on the radio control which we wish to start. (es. SXKEY).

RADIO CONTROL PROGRAMMING KEY CLOSE

(Only with inserted module)

- press the button P two times (lighting LB)
- press the button P on the radio control which we wish to start. (es. DXKEY).

Attention: this according to key it works like the first unless in modality present man. In modality present man, the first key opens, while the second closes.

PROGRAMMING OF WORKING TIMES

The working times can be programmed as follows:

- press the button P three times on the terminal (lighting LA)
- press the radio control or the "AP" key to start the opening motor
- once the opening time that we wish to store has elapsed, press the radio control or "AP" key again - wait for the pause time that we wish to store and then press the radio control or "AP" key again - once the closing time that we wish to store has elapsed, press the radio control "AP" key

Attention: the pause time must be stored even if the automatic closing is not activated.

PROGRAMMING COURTESY LIGHT

- press the button P four times on the terminal (LED LA e LED LB blinking).
- press the radio control or the "AP" key to start the opening motor
- it begins the time of conteggio
- ended the time to press the "AP" key to start the opening motor

when the motor is set in action the courtesy light will be ignited for the set up time

PROGRAM TABLE

By number of pulses, we mean the number of times that the key P on the terminal is pressed.

PULSE	PROGRAMMING	LED LA	LED LB
1	STORAGE OF RADIO CONTROLS OPEN KEY	ON	OFF
2	STORAGE OF RADIO CONTROLS CLOSE KEY	OFF	ON
3	PROGRAMMING OF WORKING TIMES	ON	ON
4	PROGRAMMING COURTESY LIGHT	Blinking	Blinking

PROGRAMMING THE OPERATING MODE

The terminal comes from the factory by default in the following way:

Function: OPEN –STOP - CLOSE

Without automatic reclosing

Time opening: 30 s

Time closing: 30 s

Configurable input: stop button

Light courtesy time: 30 s

To enter into programming mode, you must hold down the button P on the terminal for about 5 seconds. At this point, Led LA and Led LB will start flashing alternatively and we have entered the configuration mode (see table)

Once the type of programming has been chosen, press the 'open' key to confirm.

At the end, the terminal will automatically escape from the programming.

OPEN-CLOSE

One click opens, one click closes (cyclic). If no command is given when opening, when opening time has elapsed, the terminal will remain in stop position. Another click on the radio control or the 'open' key will close. If, when closing, the 'open' key or radio control is pressed, the direction will be inverted.

OPEN-STOP- CLOSE

One click opens, one click stops, one click closes (cyclic). If no command is given when opening, when opening time has elapsed, the terminal will remain in stop position. Another click on the radio control or 'open' key will close. If, when closing, the 'open' key or radio control is pressed, the movement will stop.

OPEN – CLOSE WITH AUTOMATIC RECLOSING

The same as open-close with the difference that when the opening time has elapsed, instead of remaining in stop, the terminal will close after a (programmed) period of time. If the key is pressed during the pause, it resets the pause time (starts again). If, during the opening, the 'open' key is held until the pause, we have a clock-type function (to leave the automation open for a certain period set by the timer connected to the 'open' key).

OPEN –STOP -- CLOSE WITH AUTOMATIC RECLOSING

The same as open-stop-close with the difference that when the opening time has elapsed, instead of remaining in stop, the terminal will close after a (programmed) period of time. If the key is pressed during the pause, it resets the pause time (starts again). If, during the opening, the 'open' key is held until the pause, we have a clock-type function (to leave the automation open for a certain period set by the timer connected to the 'open' key).

PERSON PRESENT

Remember to program the "input configurable" as the Close input.

Hold down the movement key to start the motor. This starts the motor to open the gate. Press the Soft key to close the gate.

With the remote control the motor opens until reaching the maximum time memorised previously. When this time is reached, press the remote control key again to close.

PROGRAMMING INPUT CONFIGURABLE AS PHOTOELECTRIC CELL IN CLOSING

If, while closing, this input is opened (negative logic), the terminal will block the movement for 1 second after which the direction will be inverted.

PROGRAMMING INPUT CONFIGURABLE AS PHOTOELECTRIC CELL IN OPENING AND CLOSING

If, while opening, this stop input is opened, the terminal will block the movement until the input is closed. If, in closing, this input is opened (negative logic), the terminal will block the movement for 1 second after which the direction will change, so opening it.

PROGRAMMING INPUT CONFIGURABLE AS CLOSE INPUT

When this input is opened, the terminal closes. If this input is already closed, it is inactive.

ANEMOMETER INPUT

The anemometer input is a closure key.

For simplicity we can define it as:

- OPENING - the operation in which the awning is opened
- CLOSING - the operation in which the awning is rewound and therefore closed

PROGRAMMING INPUT CONFIGURABLE AS ANEMOMETER INPUT

When this input is in action, the terminal will close

PROGRAMMING INPUT CONFIGURABLE AS AUTOMATIC ANEMOMETER INPUT

When this input is no longer in action, after 10 minutes the terminal will open.

PROGRAMMING INPUT CONFIGURABLE AS STOP

When the input is opened, the terminal will block the motor and will not accept further commands until the stop input is closed again.

When programmed as a stop or photocell, the configurable input must be NC (negative logic).

PULSE	PROGRAMMING	LED LA	LED LB
1	Open-Close without automatic reclosing	ON	OFF
2	Open-Stop-Close without automatic reclosing	Slow blinking	OFF
3	Open-Close with automatic reclosing	Fast blinking	OFF
4	Open-Stop-Close with automatic reclosing	OFF	ON
5	Configuration Stop Input: photoelectric cell in closing	OFF	Slow blinking
6	Configuration Stop Input: photoelectric cell in opening and closing (In opening the motion stops until the obstacle is removed)	OFF	Fast blinking
7	Configuration Stop Input: as close input	ON	ON
8	Configuration Stop Input: as anemometer input (automatic closure in the event of ind)	Slow blinking	Slow blinking
9	Configuration Stop Input: as automatic anemometer input (closure in the event of wind and automatic reopening x minutes after the wind has ceased)	Fast blinking	Fast blinking
10	Configuration Stop Input: as stop input	Slow blinking	Fast blinking
11	Person present	Fast blinking	ON
12	Escape from programming	OFF	OFF

PULSES FROM 1 TO 4

If one of the functioning modes is chosen (from pulse 1 to 4) the choice obviously excludes the remaining functioning modes. **Once one of the four points has been programmed, to select the remaining points (from 5 to 10) you must again press and hold the button for 5 seconds until you reach the desired point.**

PULSES FROM 5 TO 10

If one of the functioning modes is chosen (from pulse 5 to 10) the choice obviously excludes the remaining functioning modes.

WARNING

In "person present" mode, always remember to memorise the "Soft" key as the "Close" key.

SEA S.p.A. is not liable for damages due to incorrect connections and/or tampering of the receivers neither are such damages covered by guarantee.

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The connections to the terminal board are to be carried out by qualified people after having read the above mentioned instructions.

NB: An omnipolar switch is required in the terminal with contacts having a minimum distance of 3 mm, in order to switch it off before servicing (CEI 64-8).



DANGER 230 VAC