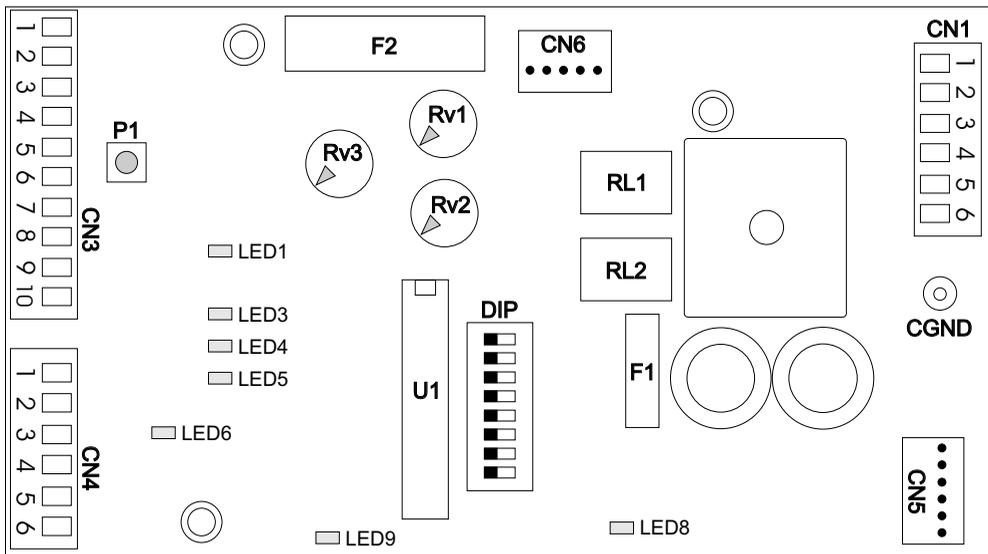




English

CONTROL UNIT GATE 1 24V DC AMMETER



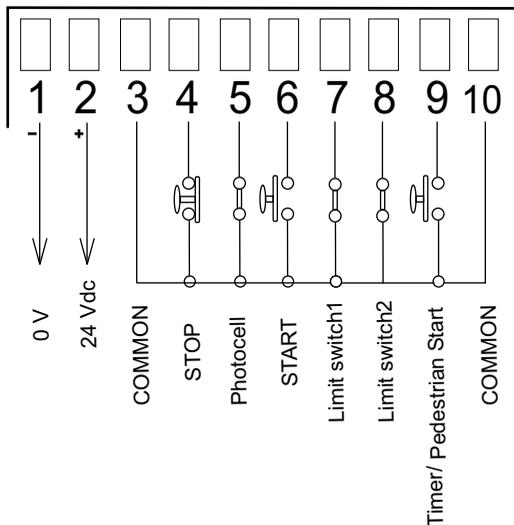
LED1 = Photocell	CN5 = Battery charger connector (<i>see last page</i>)
LED3 = Start	CN6 = Radio receiver connector
LED4 = Stop	Rv1 = Motor speed regulation
LED5 = Not active	Rv2 = Slow down speed regulation
LED6 = Pedestrian or Timer	Rv3 = Anti-crushing sensibility regulation
LED8 = Power supply	P1 = Working time memorizing push button
LED9 = Programming	DIP = Dip switch for functions setting
CN1 = Transformer motor connector	F1 = Power supply and motor fuse (15A) Saturn-10A Taurus
CN3 = Inputs/outputs 24V connector	F2 = Accessories fuse (2A)
CN4 = Flashing lamps 24V connector	RL1 - RL2 = Relay motor direction
CGND= Earth connector	U1 = Microcontroller



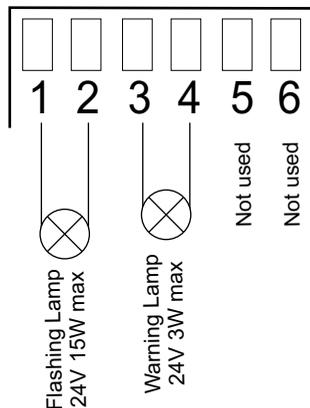
||| English |||

CONNECTIONS

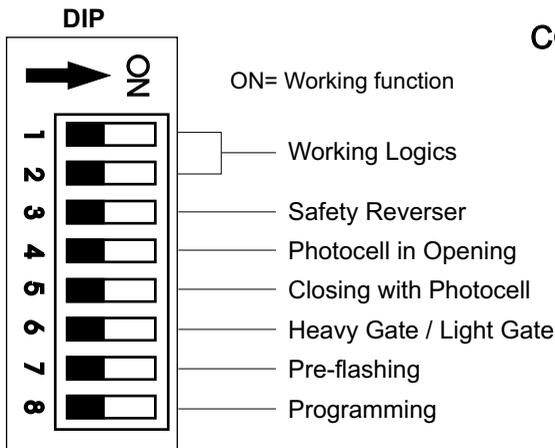
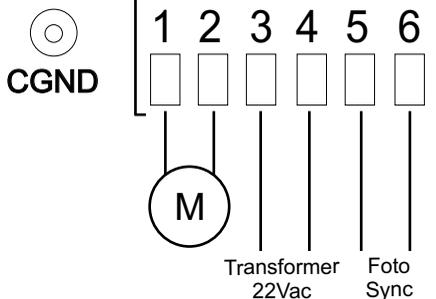
CN3



CN4



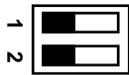
CN1



Note: the Photo Sync is a 24Vac connection to feed the synchronized photocells.

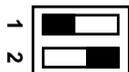


SETTING OF WORKING LOGICS



LOGIC WITH STEP BY STEP COMMANDS TYPE 1

The repeated start executes the following sequence: open-stop-close-stop-open-stop-close



LOGIC WITH STEP BY STEP COMMANDS TYPE 2

The repeated start executes the following sequence: open-stop-close- open-stop-close-.....



AUTOMATIC LOGIC (automatic closing)

The start executes only an opening when it's closed, in opening it stops and at the following start impulse it closes, during pause a start impulse closes immediately, in closing it re-opens. After the pausing time it re-closes automatically.



CONDOMINIUM LOGIC (automatic closing)

The start only opens when the automation is closed, in opening it's not accepted, in pause it's not accepted (the counting of the set time continues), in closing it opens again. After the pausing time it re-closes automatically.

OTHER FUNCTIONS

ON



3

INTERVENTION OF THE SAFETY REVERSER IN CLOSING

OFF: It re-opens again and if there is the automatic closing is programmed after the pause time it closes. If, after two attempts, the closing has not been completed, the sliding door stays opened and waits for commands.

ON: It re-opens and waits for commands. (Not usable with condominium logic as a start impulse during pause is not accepted).

ON



4

PHOTOCELL IN OPENING

OFF: Photocell only in closing, in case of signal interruption the movement is reversed.

ON: Photocells active in both opening and closing, in case of obscuration in opening the movement will be interrupted and the gate continues to open when the photocells are free again, while in closing the movement is inverted only when the photocells are free.

ON



5

CLOSING FUNCTION AFTER THE INTERVENTION OF THE PHOTOCELL

ON: If a pause time is programmed it will be reduced to 3 seconds when the photocells are interrupted in opening or in pause.

ON



6

HEAVY GATE/LIGHT GATE

OFF: Administration of a light gate of up to 400 Kg (**Taurus 400 24V or Saturn 600 with less than 400 Kg weight**).

ON: Administration of a heavy gate with weight over 400 kg (**Saturn 24V 1500 or Saturn 600 with over 400 Kg weight**).

Furthermore:

OFF: Pedestrian opening time 12 sec. and anti-squeezing less sensible. (On light gates it is recommended to set on OFF).

ON: Pedestrian opening time 14 sec. and anti-squeezing more sensible. (On heavy gates it is recommended to set on ON).



ON



7

PRE-FLASHING

OFF: The flashing lamp activates simultaneously with the motor start.

ON: Pre-flashing which anticipates every movement of 3 sec. except of the reversing, due to the intervention of the safeties.

ON



8

PROGRAMMING

OFF: Setting for Normal functioning.

ON: Opens the time programming phase.

INPUTS/OUTPUTS DESCRIPTION

PHOTOCELL (N.C.)

Input N.C., When the signal is interrupted during closing the gate re-opens immediately.

With DIP 4 on ON the intervention of the photocells causes the interruption of the movement also in opening and re-open immediately after their disengagement.

STOP (N.C.)

Stops the automation whenever it is pressed.

A start impuls resets the movement.

START (N.O.)

Input to command the automation in accordance with DIP1 and 2

TIMER / PEDESTRIAN (to be used as clock input)

A short impuls causes the pedestrian opening, a closed contact with clock causes the opening with timer.

1) PEDESTRIAN OPENING (N.O.)

Opens for more or less one meter in accordance to the set logic, automatic or condominium. After the set pausing time, it re-closes automatically.

2) TIMER (N.O.) (to be used as clock input)

Input only for opening. Activated in Automatic and Condominium Logics it does not close until it is not disengaged.

IMPORTANT NOTICE: All the N.C. contacts which are not used must be linked with the common.

FLASHING LAMP:

During the opening phase, it flashes once a second; during the closing phase, it flashes twice a second.

When the automation is opened and in automatic logic, the flashing lamp stays on during the whole pause time.

If DIP 7 is set on ON a pre-flashing of 3 seconds will be executed before the door starts to move.

WARNING LAMP:

Follows the same logic of the flashing lamp



SETTINGS



MOTOR SPEED REGULATION

Trimmer turned completely anti-clockwise = minimum speed

Trimmer turned completely clockwise = maximum speed

ATTENTION: Pay very much attention, when adjusting the maximum slowdown speed, as it must be appropriated to the mechanical structure of the gate on which the automation is installed and respect the security laws in force.



SLOW DOWN SPEED REGULATION

Trimmer turned completely anti-clockwise = minimum speed

Trimmer turned completely clockwise = maximum speed

ATTENTION: Pay very much attention, when adjusting the maximum slowdown speed, as it must be appropriated to the mechanical structure of the gate on which the automation is installed and respect the security laws in force.



REGULATION OF INTERVENTION THRESHOLD OF THE ANTI-CRUSHING DETECTOR

Trimmer turned completely anti-clockwise = maximum sensibility (minimum thrust in case of obstacle).

Trimmer turned completely clockwise = minimum sensibility (maximum thrust in case of obstacle).

After two consecutive interventions of the anti-crushing detector, even if in automatic logic, the automation rests opened waiting for commands.

Adjust the sensibility according to the security laws in force.

NOTICE: The setting of Trimmers and Dip Switches are read when the automation stops.



Activates the self-programming (with DIP 8 = ON)

Activates the opening/closing of the automation (with DIP 8 = OFF)

SELF-PROGRAMMING PROCEDURE OF THE CONTROL UNIT

After having checked the right sliding of the gate and the electric connexions on the inputs/outputs, execute the following procedure:

1. Release the gate and put it manually in closing.
2. Restore the mechanical stop and manually move the gate until the lock has mechanically re-engagement.
3. Power supply the control unit Gate 1 24V
4. Set Dip Switch 8 on position ON
5. Make sure that during the learning procedure no stop, edge, etc. impulse is given.
6. Press the push button P1 (Make sure that the gate closes, otherwise switch off the automation, inverse the motor cables (red and black) on CN1 and repeat the procedure starting from point 1).
7. The gate executes the closing cycle until it reaches the mechanical stop in closing.
8. At this point an opening cycle will be automatically executed. In opening press P1 on the point where you want to establish the beginning of the slow down.
9. After the opening cycle has been completed the time of pause counting begins. Wait for the desired time (each flashing of the warning lamp corresponds to 1 second) and press push button P1 again.
10. At this point a closing cycle will be executed, during the closing press P1 again to fix the point on which you want to establish the beginning of the slow down in closing.
11. The gate closes automatically and the self-learning has finished.
12. When the door will be still standing and completely closed set Dip Switch 8 on OFF position again.
13. The automation is ready for functioning.



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English

SAFETY PRECAUTIONS

All electrical installation work should conform to current regulations.

A 16A - 0,030A differential switch must be incorporated into the source of the gate main electrical supply and the entire system must be properly earth bonded.

Remember to separate mains (230/115 V) carrying cables from low voltage control cables.

SPARE PARTS

To obtain spare parts contact:

SEAs.r.l. ZONA Ind.le, 64020 S.ATTO Teramo Italia

INTENDED USE

The electronic control unit GATE 1 24V has been planned to be used exclusively as a control device for sliding gates, swing gates, garage-doors, folding doors, barriers.

SAFETY AND ENVIRONMENTAL COMPATIBILITY

We recommend not to spoil the environment with product and circuit packing material.



CORRECT DISPOSAL OF THIS PRODUCT (WASTE ELECTRICAL & ELECTRONIC EQUIPMENT) - EUROPE ONLY

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

STORAGE

STORAGE TEMPERATURES			
T _{min}	T _{max}	Humidity _{min}	Humidity _{max}
-40 °C	+85 °C	5% no condensation	90% no condensation

When being transported this product must be properly packaged and handled with care.

MAINTENANCE AND OUT OF SERVICE

The decommission and maintenance of this unit must only be carried out by specialised and authorised personnel.

LIMIT OF GUARANTEE

The GATE 1 24V electronic control unit is guaranteed for a period of 24 months. The guarantee period starts from the date stamp printed on the unit. The GATE 1 24V guarantee will be void if the unit has been incorrectly installed, not used for the purpose intended, tampered with or modified in any way.

The validity of this guarantee only extends to the original purchaser of the unit.

NOTE: THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT.

SEA reserves the right to do changes or variations that may be necessary to its products with no obligation to notice.



CONNECTION OF BATTERIES AND BATTERYCHARGER CARD (OPTIONAL)

