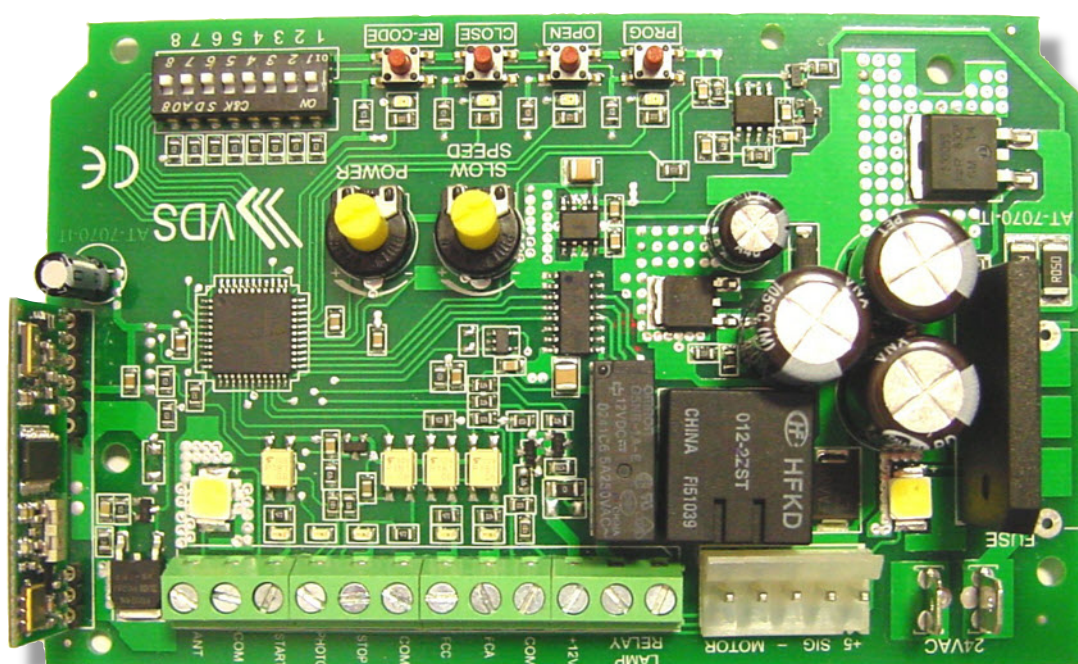


TECHNICAL INSTALLATION MANUAL

Electronic control board for sectional door operator

AT 7070

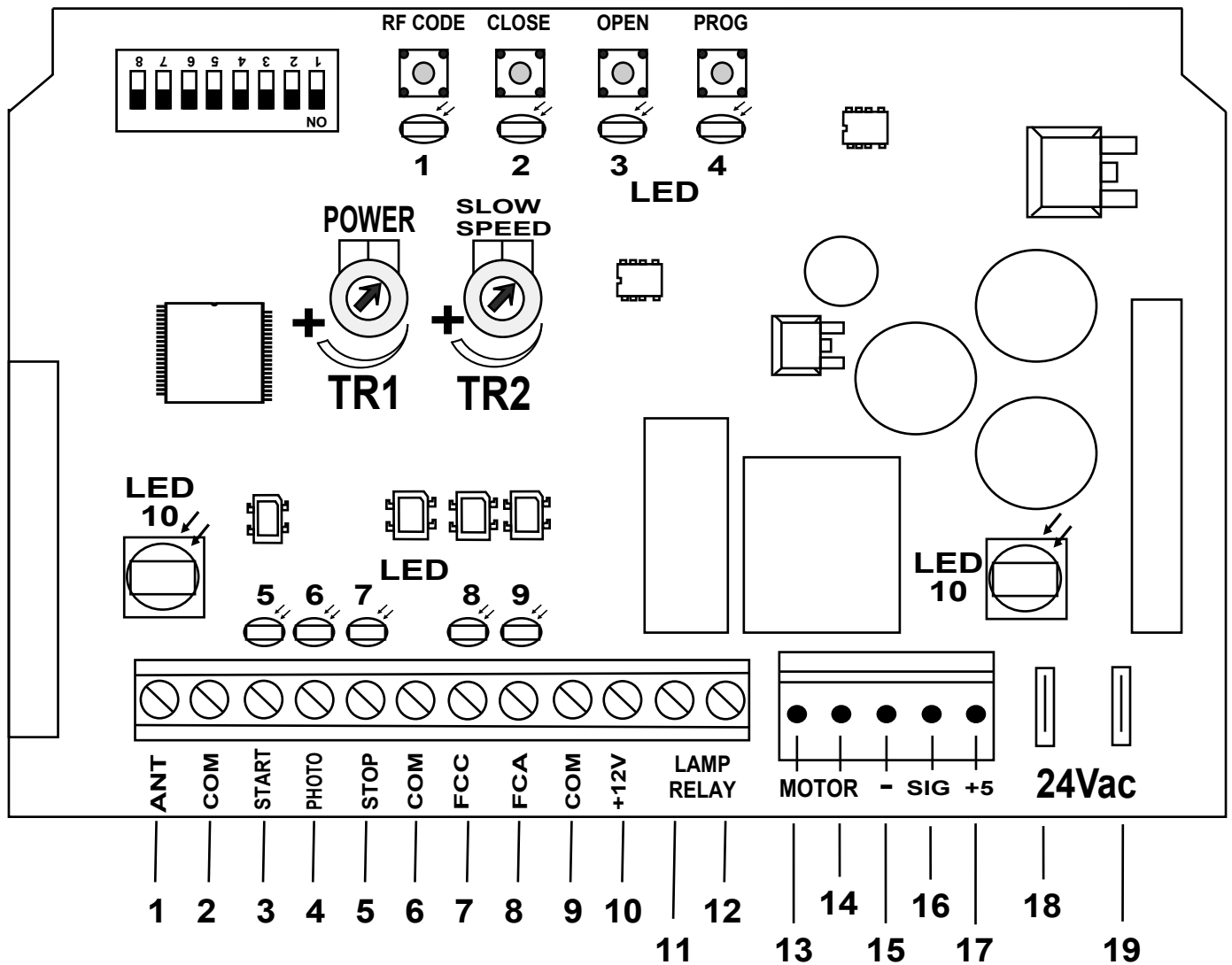


WARNING!! Before installing, thoroughly read this manual that is an integral part of the pack




Our products if installed by qualified personnel capable to evaluate risks, comply with norms UNI EN 12453, EN 12445

LAY OUT



ELECTRICAL CONNECTION

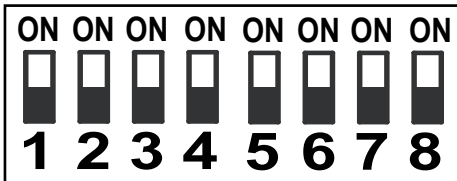
1	Antenna	
2	Start-stop-photocell common contact	1 mm ²
3	Start contact N.O.	1 mm ²
4	Photocell contact N. C. (put a jumper if nor used)	1 mm ²
5	Stop contact N. C. (put a jumper if nor used)	1 mm ²
6	Limit switches common contact	1 mm ²
7	Closure limit switch contact N.C. (put a jumper if nor used)	1 mm ²
8	Opening limit switch contact N.C. (put a jumper if nor used)	1 mm ²
9	Accessory power supply common	1 mm ²
10	+ 12Vdc accessory power supply (photocells)	1 mm ²
11-12	Flashing light free contact 	1 mm ²
13-14	Motor connection 24 Vdc	1 mm ²
15	Encoder connection Negative	1 mm ²
16	Encoder connection signal	1 mm ²
17	Encoder connection +5V	1 mm ²
18-19	Power Input 24 Vac (<i>Transformer</i>)	1,5 mm ²

N.O. = Normally Open Contact 

N.C. = Normally Closed Contact 

LED MEANINGS TABLE

N° LED	DESCRIPTION	N° LED	DESCRIPTION
1	RADIO	6	PHOTOCELL
2	CLOSE	7	STOP
3	OPEN	8	CLOSURE LIMIT SWITCH
4	PROGRAMMING	9	OPENING LIMIT SWITCH
5	START	10	COURTESY LIGHT



DIP SWITCHES FUNCTIONS

DIP 1 AUTOMATIC CLOSING:

ON Door closes automatically after waiting the a.c. time.

OFF Door does not close automatically.

DIP 4 SAFETY FUNCTION (photocell):

ON ANALOG Contact (8.2KΩ)

OFF N.C Contact (*put a jumper if not used*)



DIP 5 COURTESY LIGHT (LED 10):

ON Switched off

OFF Switched on (*with sthe START command, LED work for 30 sec*)

DIP 6 FLASHING LIGHT OUTPUT (LAMP RELAY):

ON Light blinks until the operator is running or waiting for automatic closing. It turns off after 30 seconds the operator stop.

OFF Light is fix until the operator is running or waiting for automatic closing. It turns off after 30 seconds the operator stop

DIP 7 SLOW START CLOSING

ON The automation during closing start at slow speed.

OFF The automation during closing start at normal speed.

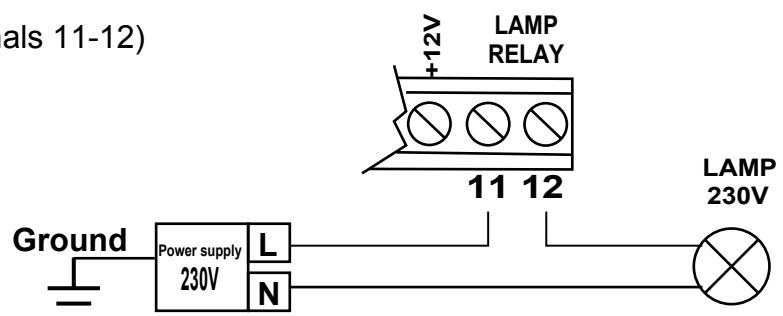
DIP 8 OPERATOR RUNNING DIRECTION:

ON Normale polarity

OFF Reversed polarity

FLASHING LIGHT CONNECTION

Flashing light output relay (terminals 11-12)

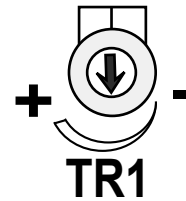


AMPEROSTOP SENSIBILITY SETTING (ANTI CRUSHING)

To adjust the sensibility of the amperostop do the following :

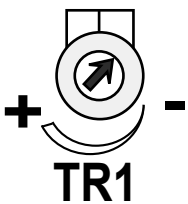
- **Before programming stroke :**

- Set the dip switch N ° 2-3 (look table)
- Adjust the trimmer TR1 in halfway



- **Program the stroke** (see pag 5)

- Adjust trimmer TR1 so that the sensibility of the amperostop is adequate to the proper functioning of the operator



Increase trimmer toward + to provide more strength to the operator and less sensibility to the intervention of the amperostop

Increase trimmer toward - to provide less strength to the operator and more sensibility to the intervention of the amperostop

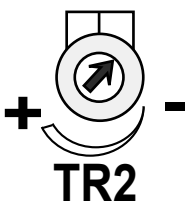
Sensibility amperostop	Dip 2	Dip 3
100%	OFF	OFF
75%	ON	OFF
50%	OFF	ON
25%	ON	ON

SLOWING DOWN ADJUSTMENT

To adjust the slowing down speed :

- **Before programming stroke :**

- Open the door with OPEN button and adjust trimmer TR2, to have the required speed.



Increase trimmer toward + to increase the speed

Increase trimmer toward - to decrease the speed

RADIO TRANSMITTERS PROGRAMMING

- **CODING** : This control panel allows the storage of fix code and rolling code also simultaneously.
- **PROGRAMMING:**
Press RF-CODE button , LED lights for 10 seconds, press the transmitter button you want to program. programming is completed.
- **DELETING CODES:**
To delete all codes in memory hold RF-CODE for 10 seconds until LED begins to blink. the operation is completed

STROKE PROGRAMMING

WITH SLOW DOWN IN START CLOSING (DIP SWITCH 7 ON)

- Press OPEN button, bring the door to the desired opening and adjust the opening limit switch.
- Press CLOSE button, bring the door to the closure.
(NOTE : If connected, adjust the closure limit switch)
- Press PROG button for 2 seconds, LED blinks.
- Give a START impulse from button or radio transmitter, the door starts opening fast
- Give a second START impulse when you want to start the slowing down in opening, the door stops once arrived to the opening limit switch.
- With automatic closure inserted, wait the desired time with the door open.
- Give a START impulse, door begins to close in slowing down
- Give a second START impulse, door begins to close faster.
- Give a third START impulse when you want to start the slowing down in closing
- Once arrived in closure the door memorizes the closed position.

WITHOUT SLOW DOWN IN START CLOSING (DIP SWITCH 7 OFF)

- Press OPEN button, bring the door to the desired opening and adjust the opening limit switch.
- Press CLOSE button, bring the door to the closure.
(NOTE : If connected, adjust the closure limit switch)
- Press PROG button for 2 seconds, LED blinks.
- Give a START impulse from button or radio transmitter, the door starts opening fast
- Give a second START impulse when you want to start the slowing down in opening, the door stops once arrived to the opening limit switch.
- With automatic closure inserted, wait the desired time with the door open.
- Give a START impulse, door begins to fast close
- Give a second impulse when you want to start the slowing down in closing
- Once arrived in closure the door memorizes the closed position.

SAFETY DEVICES FUNCTION

PHOTOCELL (terminal 2-4)

Occupancy of photocell causes :

- Opening : no effect
- Closing : immediate stop and return to the opening operation.

AMPEROSTOP FUNCTION

Opening :

- Blocking the movement of the door

Closing :

- Blocking and reverse in opening the movement of the door

START COMMAND FUNCTION

A START impulse by button or radio transmitter, with closed door, has the following function:

- STEP BY STEP: OPEN → STOP → CLOSE → STOP → OPEN
- **AUTOMATIC:** OPEN → STOP → AUTOMATIC CLOSURE OR CLOSURE WITH IMPULSE → STOP → OPEN



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