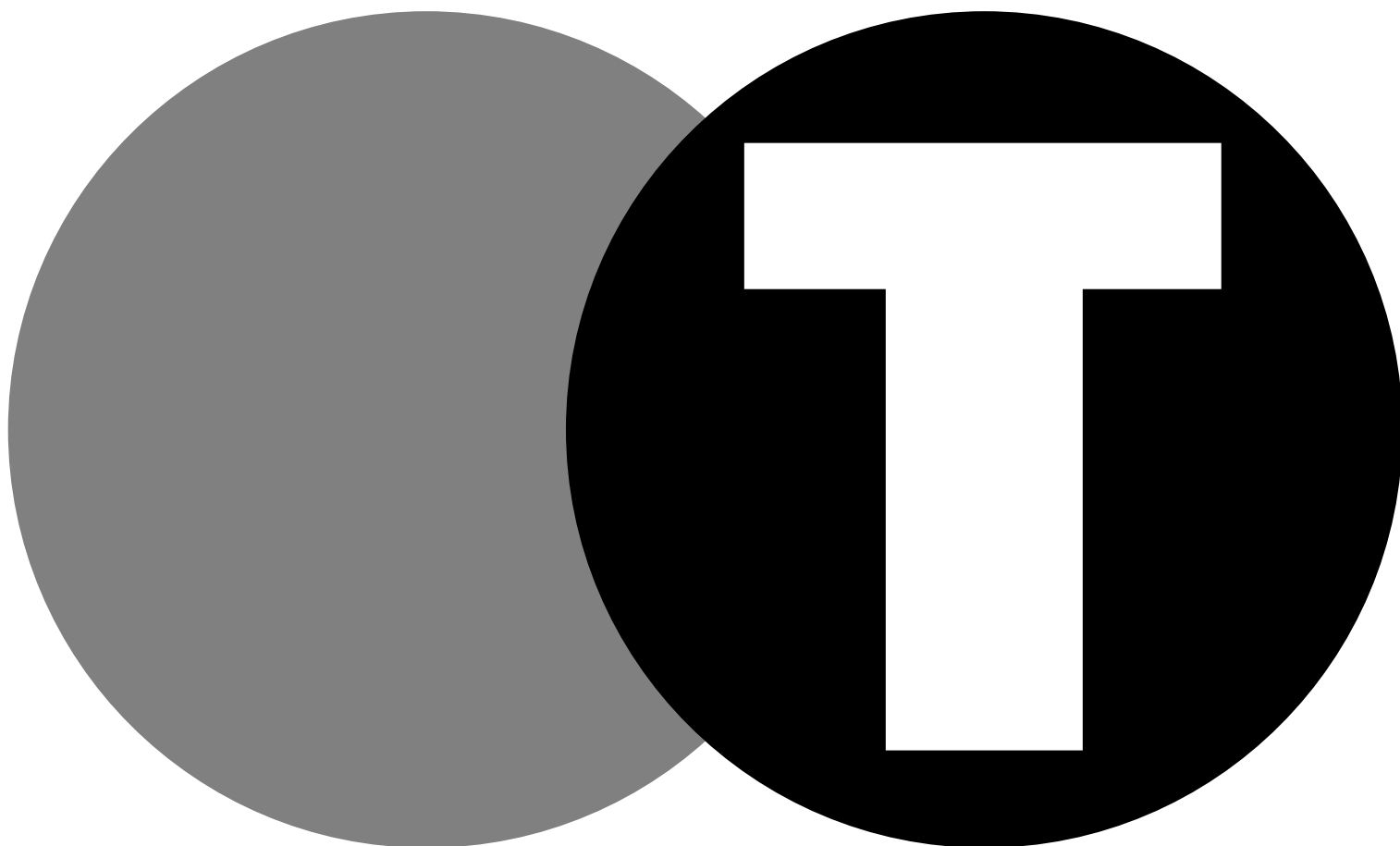
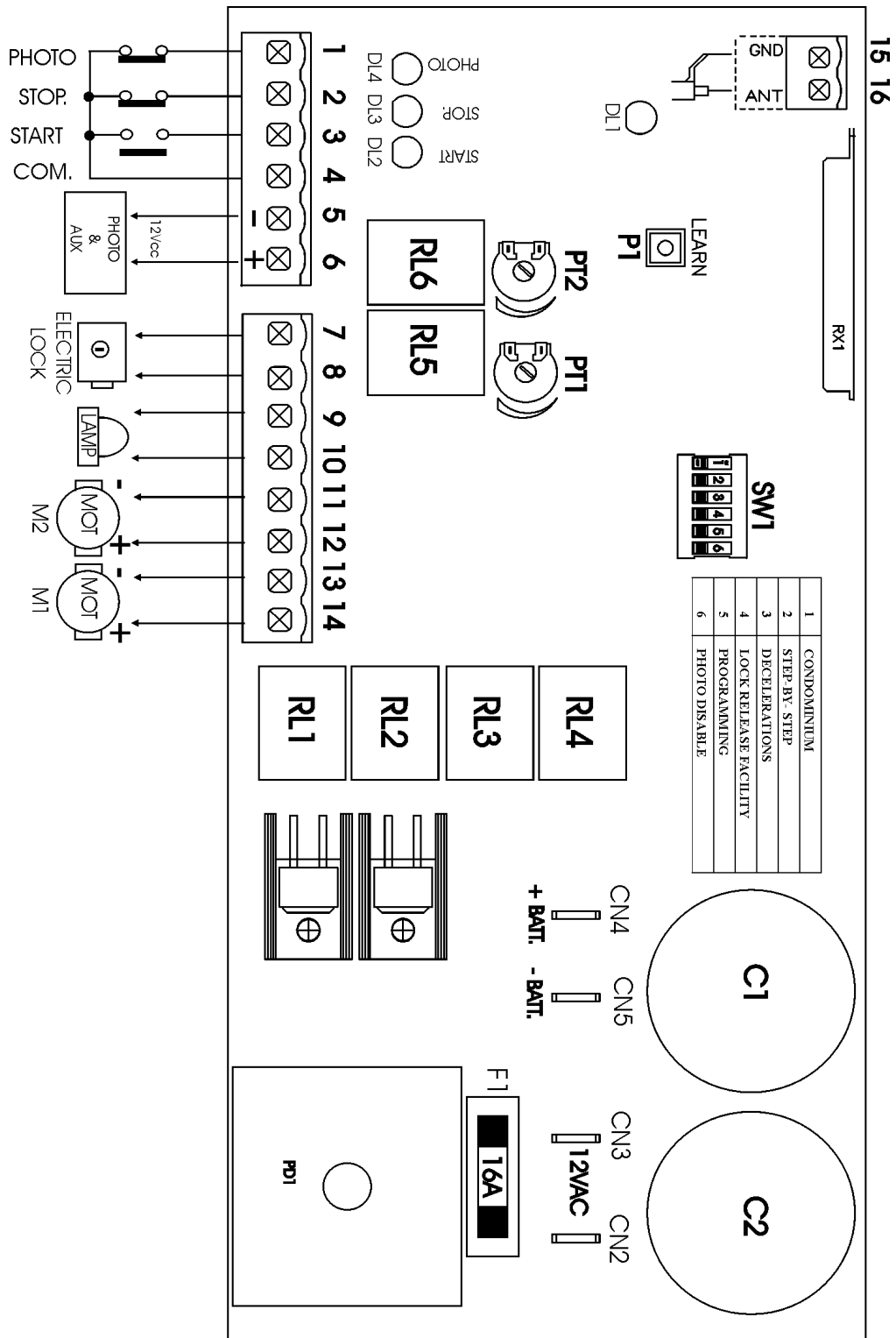


# **F12E**

**ISTRUZIONI PER L'INSTALLAZIONE  
INSTRUCTIONS FOR INSTALLATION  
INSTRUCTIONS POUR L'INSTALLATION  
ANLEITUNG FÜR ZUR INSTALLATION  
INSTRUCCIONES PARA LA INSTALACION  
INSTRUÇÕES PARA A INSTALAÇÃO  
INSTRUCTIES VOOR DE INSTALLATIE**





**TECHNICAL CHARACTERISTICS**

Power supply	230 VAC, single-phase, 50 /60 Hz
No. of motors	2 x 12 VDC 30W (code AS04330 ) 2 x 12 VDC 60W (code AS04340)
Flashlight	12 VDC 15W max.
Photocell power supply	12 VDC 6W max. (2 pairs of photocells)
Electric lock	12 VDC 15W max.
Operating temperature	-20 to +60°C
Pause Time	0 - 240 s
Run time	0 - 240 s
Fixed pre-flashing	2 s

**General**

The electronic control unit code AS04330 and AS04340 for control of one or two 12 VDC motors for swing gates is in conformity with the Directives in force.

- Functions available:
- step-by-step
  - step-by-step with automatic reclosing (residential)
  - condominium
  - pedestrian opening with second remote control channel (only with RADIO MODULE code AU01780)
  - water hammer
  - deceleration
  - automatic closing after freeing the photocells

- Adjustments :
- run time
  - pause time
  - gate phase shift time
  - amperometric thresholds

**WARNINGS**

- A)** Before proceeding with installation, fit a magnetothermal or differential switch with maximum capacity of 10A upstream of the system. The switch must guarantee omnipolar separation of the contacts with an opening distance of at least 3 mm.
- B)** To prevent possible interference, differentiate and always keep the power cables (minimum cross-section 1.5 mm<sup>2</sup>) separate from the signal cables which must be at least 0.5 mm<sup>2</sup>.
- C)** Make the connections referring to the following table and the attached silk-screen print. Be very careful to connect in series all the devices that are connected to the same NC (normally closed) input and in parallel all the devices that share the same NO (normally open) input.  
Incorrect installation and improper use of the product may compromise the safety of the system.
- D)** All the material contained in the package must be kept out of reach of children, since they constitute a potential hazard.
- E)** The manufacturer declines all responsibility for proper functioning of the automated device if original Gi-Bi-Di components and accessories suitable for the application are not used.
- F)** After installation always carefully check proper functioning of the system and the devices used.

**Connections (Terminal Board Legend)**

<b>1</b>	PHOTOCELL input (NC)	<b>11 - 12</b>	Output Motor 2 ( 12 positive during opening )
<b>2</b>	STOP input (NC). Causes a functional stop of the motion (NOT A SAFETY STOP)	<b>13 - 14</b>	Output Motor 1 (= it opens for first) to be used for pedestrian gate (14 positive during opening)
<b>3</b>	START input (NO)	<b>15</b>	ANTENNA ground
<b>4</b>	COMMON for STOP-START-PHOTOCELLS	<b>16</b>	ANTENNA signal
<b>5 - 6</b>	12 VDC output for power supply, max. 2 pairs of photocells (6 = POSITIVE)	<b>CN4 - CN5 (*)</b>	Input for 12 VDC BUFFER BATTERY (CN4 = positive)
<b>7 - 8</b>	12 VDC output for ELECTRIC LOCK power supply (max. 15 W)	<b>CN2- CN3</b>	12 VAC input (from transformer)
<b>9 - 10</b>	12 VDC output for FLASHLIGHT ( max. 15 W )	<b>F - N</b>	Power supply, 230 VAC, single-phase, 50/60 Hz

**(\*) WARNING:**

IF USING WITH BATTERY, THE "OPTIONAL CABLE" ACCESSORY SPECIFICALLY DESIGNED FOR RECHARGING IS REQUIRED. CONNECTING A BATTERY WITHOUT THIS SPECIAL CABLE MAY CAUSE IRREPARABLE DAMAGE TO THE CONTROL UNIT.



## FUNCTION SELECTION VIA DIP-SWITCH SW1

DIP	ON	OFF
<b>1</b>	CONDOMINIUM program	Uninfluential (see DIP2) (*)
<b>2</b> (Only with DIP1 OFF)	<b>STEP-BY-STEP</b> program (*)	<b>RESIDENTIAL</b> program (step-by-step with automatic reclosing)
<b>3</b>	DECELERATION phase in the last seconds of each manoeuvre (*)	DECELERATION disabled
<b>4</b>	Water Hammer enable to facilitate electric lock release	Water Hammer disabled (*)
<b>5</b>	TIME PROGRAMMING	Normal operation (*)
<b>6</b>	PHOTOCELL input disabled (terminals 1-4) (*)	PHOTOCELL input enabled

(\*) DEFAULT SETTINGS

**WARNING:**

With DIP2 OFF: should the power fail during opening, closing or pause, when the power is restored the control unit automatically performs a full closing manoeuvre of the gate.

The following table shows what occurs each time a START COMMAND is given depending on the program selected and the state in which the gate is at that moment.

PROGRAM selected	The gate is CLOSED	The gate is OPENING	The gate is OPEN	The gate is CLOSING
<b>STEP-BY-STEP</b>	OPENS	STOPS	CLOSES	STOPS
<b>RESIDENTIAL</b>	OPENS	STOPS and enables counting of the pause time for the next automatic reclosing	CLOSES (the gate would close automatically at the end of the pause time)	STOPS AND RE-OPENS
<b>CONDOMINIUM</b>	OPENS	IGNORED	Reinitialises counting of the pause time at the end of which it closes automatically	STOPS AND RE-OPENS

**ADJUSTING THE TRIMMERS PT1 (motor 1) and PT2 (motor 2)**

Turning the trimmers clockwise increases the AMPEROMETRIC LOCKING THRESHOLD of the respective motor (2.5 to 5.5 A).

**The intervention of the current limiter both during opening and closing causes an immediate stop of the movement.**

DEFAULT SETTINGS: trimmers adjusted to half their stroke.

**WARNING !**

To facilitate the PROGRAMMING phase, let the control unit or the receiver learn a remote control (see CODE LEARNING), otherwise the START command must be given by closing the contact to the terminals 3-4.

Start programming from the condition in which the GATE IS COMPLETELY CLOSED.

To enable deceleration set DIP3 to ON before starting to program.

**TIME PROGRAMMING** – double swing gates

(run time, pause time, gate phase shift time, pedestrian cycle)

- 1) GATE CLOSED: set DIP5 to ON.
- 2) Press START: Wing 1 starts opening and after 2 seconds also Wing 2.
- 3) When Wing 1 arrives against the mechanical stop, it stops automatically. **WING 1 STOPS.**
- 4) When Wing 2 arrives against the mechanical stop, it stops automatically. **WING 2 STOPS.**
- 5) The flashlight goes off and counting of the pause time starts. After the desired time (max. 240 s) press START: **WING 2 STARTS CLOSING.**
- 6) Wait for the time necessary to assure the desired gate phase shift and then press START: **WING 1 STARTS CLOSING.**
- 7) The control unit does not accept any more commands until the **WINGS HAVE STOPPED** against the respective mechanical closing stops. **GATE CLOSED.**
- 8) Set DIP5 to OFF to finish programming.

If the control unit is coupled to the receiver code AU01780 it is also possible to control partial opening of only **WING 1** (pedestrian cycle) using the 2nd channel of the remote control (**previously stored**).

To program the **PEDESTRIAN CYCLE** operate as described above (steps 1, 2, 3, 5, 6, 7, 8), but give the command through the **2nd CHANNEL** of the remote control.

**TIME PROGRAMMING** – single swing gate

( run time, pause time)

Before proceeding with time programming, the control unit must be set for control of only one motor.

1) GATE CLOSED: set DIP5 to ON.

Press the button P1: the LED DL1 flashes twice (**pressing it again, it would flash once only to indicate double swing gate setting**).

Program the times respecting the same logic described above (steps 2, 3, 5, 6, 7, 8).

**FAST CLOSING FUNCTION**

This function allows reducing the pause time to only 4 seconds from intervention and subsequent freeing of the PHOTOCELLS.

To enable the function, proceed as follows: during **time programming (step 5)** when the gate is in pause, **black out the PHOTOCELLS for at least three seconds**. The flashlight starts flashing to signal that the function has been stored. Free the PHOTOCELLS, wait for the desired pause time and finish the time programming phase as normal. To disable the function, repeat the programming procedure without blacking out the PHOTOCELLS.

**CONTROLLING THE FLASHLIGHT IN PAUSE TIME** (only if using the RADIO MODULE code AU01780)

For the flashlight to come on intermittently also during the pause time, **press the second key of the remote control (previously learned) during step 5 of time programming**.

**RADIO MODULE**

If the radio module code AU01780 is used on the control unit, the signal transmitted is directly decoded by the control unit which is able to decode rolling-code signals at a frequency of 433.92MHz.

For self-learning of the remote controls and complete memory reset refer to the following:

**Code learning (max. 200)**

When powering the control unit the first time, the LED DL1 emits a brief flash.

**Press the button P1:** the LED DL1 comes on fixed to indicate that the receiver is ready to learn a code.

**Press a key of the transmitter** (Key 2 only for PEDESTRIAN START): the LED DL1 flashes once to indicate that the code has been stored.

The button P1 does not have to be pressed again to store other remote controls one after the other.

When the LED DL1 goes off, it indicates that the system has exited the learning phase and is ready to function regularly.

**Total memory reset**

**To delete all the codes stored, press the button P1** (the LED DL1 comes on) **and hold it down until the LED DL1 goes off**.

When the button is released, the LED flashes once to signal that the code memory is empty.

**IMPORTANT:** If using another type of receiver, refer to the relevant instructions.

**FINAL CHECKS AND TESTING**

Before powering the control unit:

- Check proper setting of the dip switches.
- Check the electrical connections. Improper connections may irreversibly damage the control unit or present a hazard to the operator or the user.

**POWER THE DEVICE**

- Check that the red LEDs (DL3, DL 4) are normally on and that the yellow LED (DL2) is off.
- Check that any detection devices connected to terminals 1-4 function properly
- Check that the gate is closed and that the motors are ready for operation.
- Remove any obstacles within the range of action of the gate.

**TROUBLESHOOTING**

**Warning:**

Before carrying out any operation (installation or maintenance) ensure that the power has been cut !!

FAULT	POSSIBLE CAUSES and SOLUTIONS
The operator does not open or reclose	Check that the red LEDs are on and the yellow one off. Connect the STOP input (terminals 2-4) to an NC button or jumper it. Connect the START input (terminals 3-4) to an NO button.
The PHOTOCELLS do not work	DIP6 ON. Set DIP6 to OFF and check that the LED DL4 goes off when the photocells are blacked out.
Pressing the 2nd key of the TX the pedestrian gate is not activated	The second channel of the transmitter has not been learned previously. Perform the learning procedure of the second channel.
The transmitter has little range	Check that the antenna has been positioned properly (braid terminal 15, signal terminal 16, for control units code AS04330). If a plug-in receiver is used (code AU01710), the antenna must be connected to the terminals on the receiver. Check that there are no sources of disturbance in the vicinity, which limit the range.

**WARNINGS**

When wiring or inserting the RADIO MODULE, the control unit must not be powered.

The control unit must be used strictly following the instructions provided by the manufacturer on pain of forfeiture of the guarantee. Installation and/or maintenance must be carried out by qualified personnel in compliance with the provisions of the laws in force.

The manufacturer cannot be held responsible for damage caused by improper and/or irrational use. Gi.Bi.Di. reserves the right to make modifications at any time and without prior notice in order to improve the product.



# DECLARATION OF CONFORMITY EC

The manufacturer:

**Gi.Bi.Di Continental S.p.A**

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**Administrative office:**

**Sales offices:**

**Factory:**

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46025 Poggio Rusco (Mantova) ITALY

It declares that the product

## **F12E ELECTRONIC EQUIPMENT**

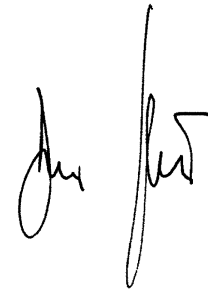
Are in conformità with the regulations of the following EEC directives:

- Directive Low Tension 73/23 and following changes
- Directive Electromagnetic Compatibility 89/336 and following changes
  - Directive R&TTE 99/05

He following (part/clauses of) harmonised regulations heve been applied:

EN60335-1, EN300220-3, EN301489-1, EN301489-3,  
EN61000-3-2, EN61000-3-3, EN61000-6-3, EN61000-6-1

Pisogne, them 01/09/2003



Managing Director  
Gualeni Dario

**Gi.Bi.Di. Continental S.p.A.**

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