



Universal control units/  
**Control unit compatible with  
 230V electromechanical and hydraulic engines**



# 051D

051D is a universal control unit with an integrated universal 433 Mhz receiver (reads and stores all the 433 Mhz fixed codes and some 433 Mhz rolling codes). In order to be universal with all the motors, the 051D control unit allow to adjust the electronic force and the electronic anti-crush system. These parameters can be adjusted for each motor and also differently for the slowing movement.

The inputs can be set as positive or negative (common). The PRIORITY DIAGNOSTIC integrated function will simplify installation and maintenance: through the display is possible to see the error messages according to priority, guiding the user step by step through the solution of every problem, showing the single error codes on the display one at a time.

Compatible with some 433,92 MHz transmitters

433 MHz RECEIVER

Display for easy setting

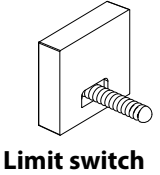
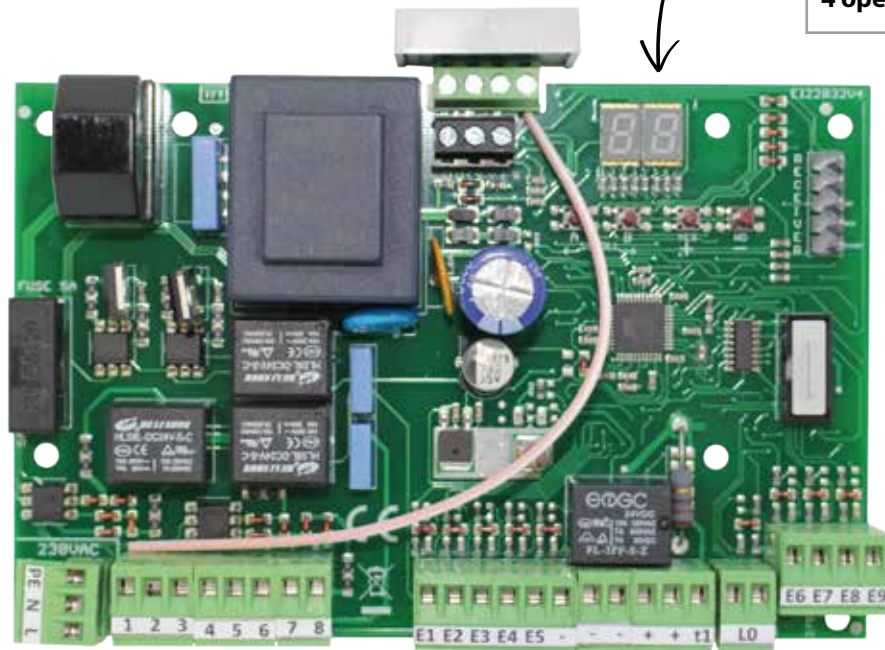
4 operating modes

### INDEPENDENT REGULATION OF THE MOTORS

Diagnostic: wiring of motors

MOTOR A	DESCRIPTION
A1 14 ***	WORKING TIME
A2 7 >:1	SLOWDOWN TIME
A3 0,8 ***	START UP TIME
A4 0,6 >:2	DELAY AT CLOSING
A5 0,6 %	STANDARD MOTOR FORCE
A6 1,0 %	SLOWDOWN MOTOR FORCE
A7 n %	STANDARD OBSTACLE DETECTION THRESHOLD
A8 n %	SLOWDOWN OBSTACLE DETECTION THRESHOLD

MOTOR B	DESCRIPTION
B1 14 ***	WORKING TIME
B2 7 >:2	SLOWDOWN TIME
B3 0,8 ***	START UP TIME
B4 0,3 >:2	DELAY AT CLOSING
B5 0,6 %	STANDARD MOTOR FORCE
B6 1,0 %	SLOWDOWN MOTOR FORCE
B7 n %	STANDARD OBSTACLE DETECTION THRESHOLD
B8 n %	SLOWDOWN OBSTACLE DETECTION THRESHOLD



#### ADJUSTABLE INPUTS

Automatic exclusion of NON-connected inputs and relative automatic activation

#### INPUT DIAGNOSTIC

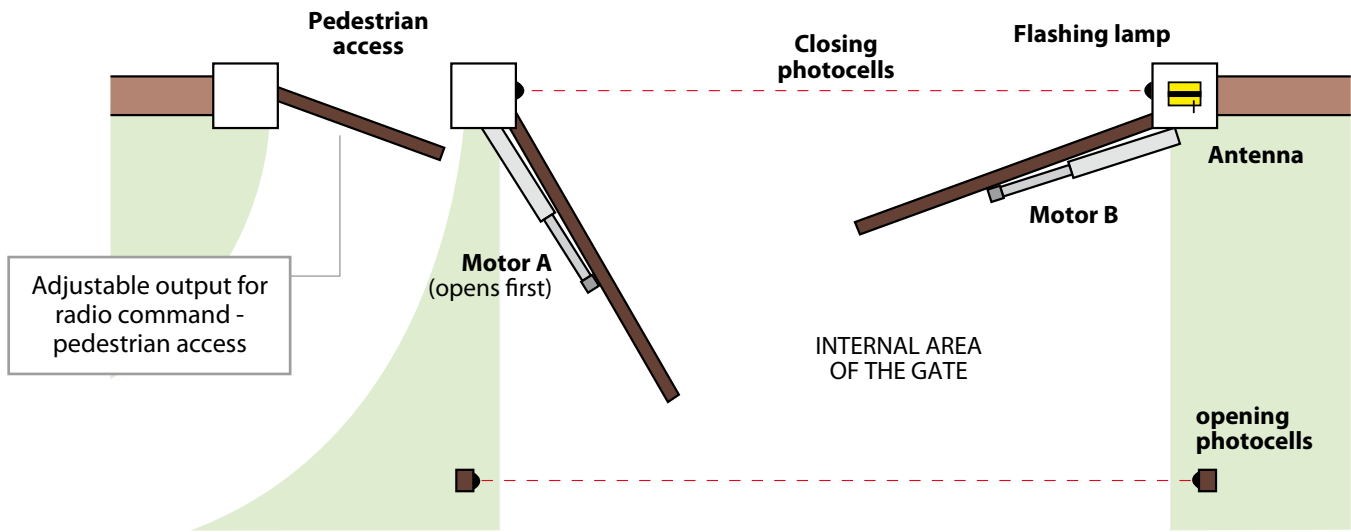
Signal and priority management of the problems found. Once the resolution of the errors is completed, the control unit can signal a new error or show "ready-to-go"

**UNIVERSAL:** inputs can be wired in positive common (+) and negative common (-). It can be set through a parameter from the menu

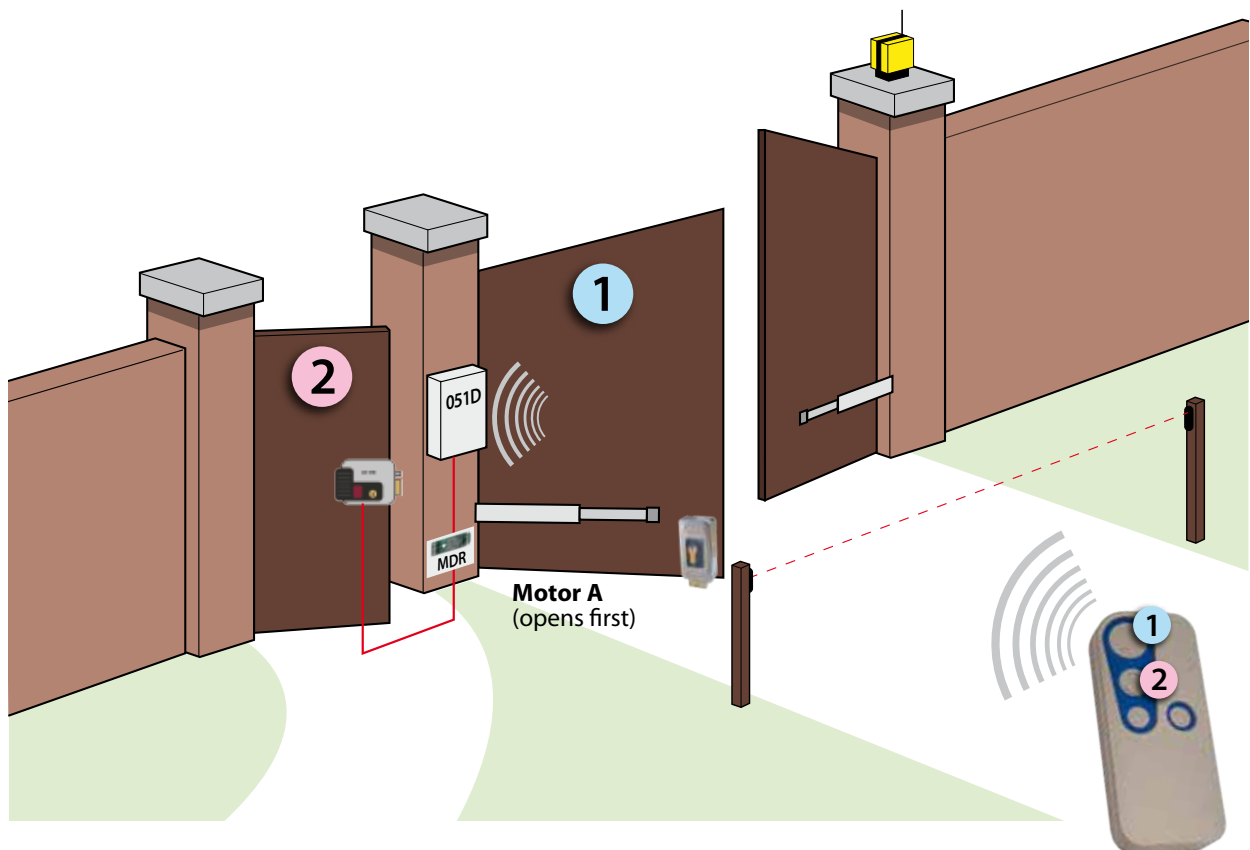
#### Technical features

- 600W for each engine
- Flashing lamp max 60W 230Vac
- Accessories power supply 24Vdc max 250mA
- Board power supply 230Vac
- Board dimensions 166x120x36 mm

## TYPICAL SWING GATE INSTALLATION



The system must have a physical limit in the opening and closing movement



**APE - 570 / 0510**



**051D  
 universal control unit  
 with  
 receiver**

**APE - 570 / 0511**



**051D  
 universal control unit  
 without  
 receiver**

**APE - 570 / 0022**



**MDR - optional board for  
 additional outputs**