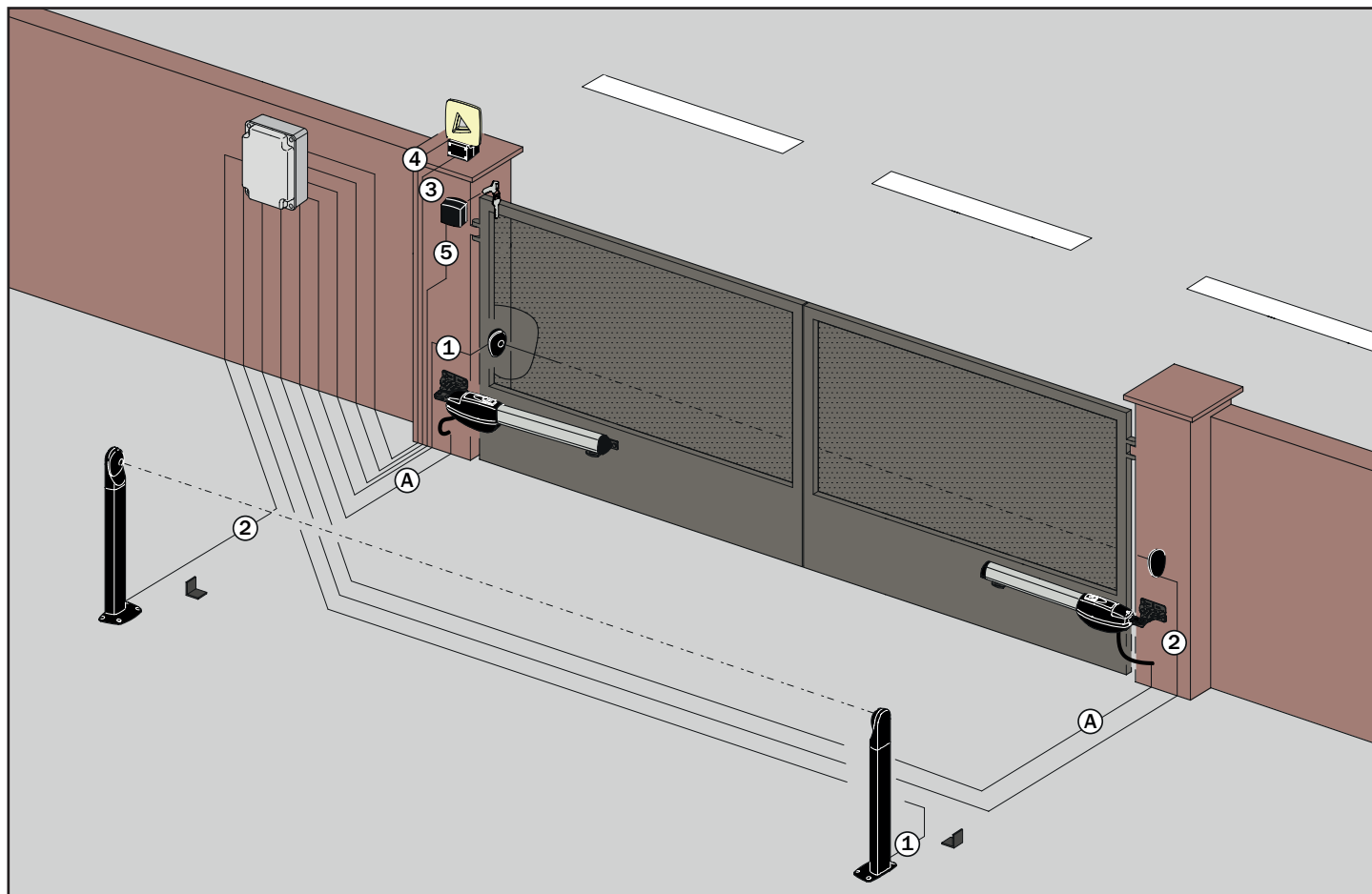


Rev01 20/08/2020

H70/200AC is a range of 230V AC controllers and controls automations for gates with 1 or 2 asynchronous single phase ROGER motors.

1. Typical installation

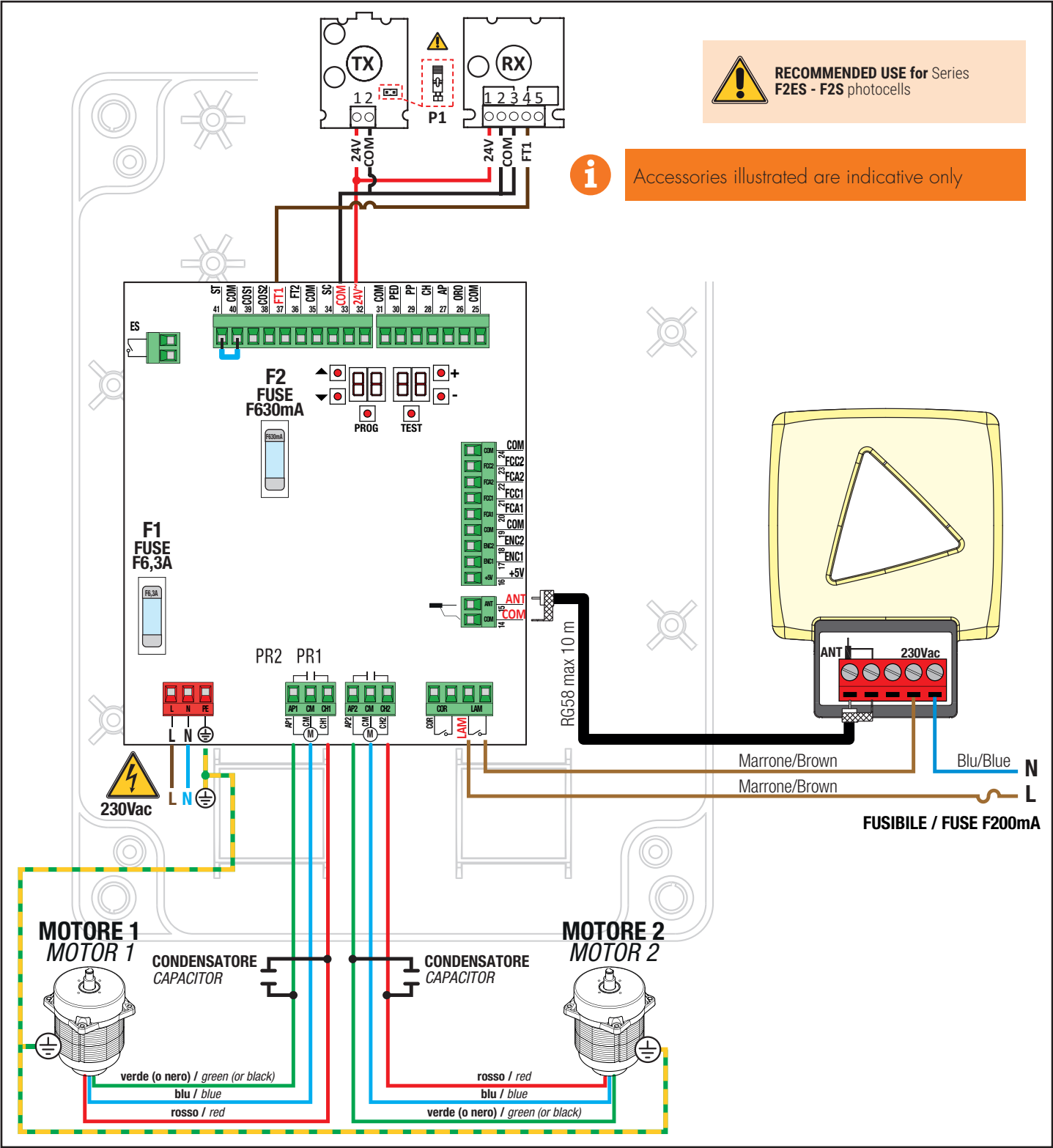


(A)	Power supply H70/200AC - Motors	3x1,5 mm ² double insulated cable (max. 15 m) - 3x2,5 mm ² (max. 30 m)
(1)	Photocell - Receiver	4x0,5 mm ² double insulated cable (max. 20 m)
(2)	Photocell - Transmitter	2x0,5 mm ² double insulated cable (max. 20 m)
(3)	Flashing lamp unit	2x1 mm ² double insulated cable (max. 10 m)
(4)	Antenna	RG58 50 Ohm cable for external use (max. 10 m)
(5)	Selector / Keypad	Cavo 3x0,5 mm ² cable (max. 20 m)

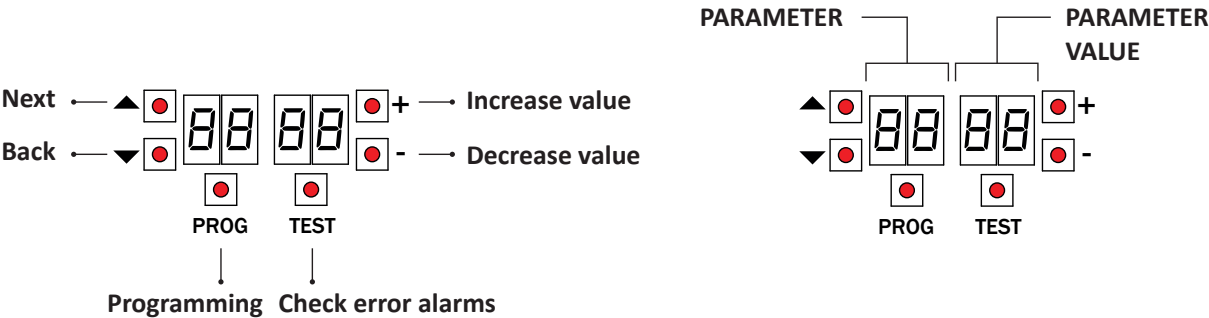
ROGER TECHNOLOGY

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2. Electrical connections



3. Display: functions and settings

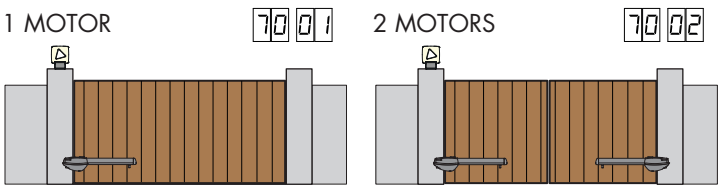


4. Before starting ...

a) Select the automation system model installed with the parameter R I.

R I 00	Standard motor (4-pole) - (MONOS4/200 and all existing codes with the exception of the following codes for the value R I 0 I)
R I 01	Slow motor (6pole) - (R20/302, R20/502, R21/368, H23/282, R41/832, R41/833)

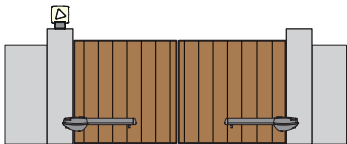
b) Select the number of motors installed with the parameter 70.
This parameter is set for two motors by default.



If the encoder is installed, select the correct setting to parameter 75.

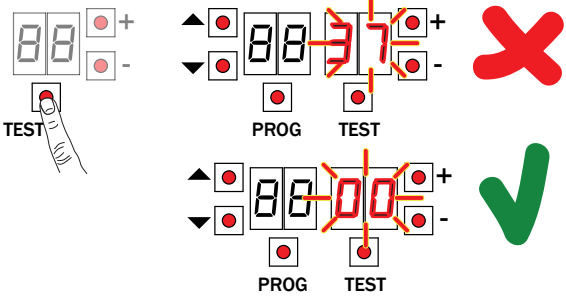
If the limit switches are connected to the control panel, select the correct setting to parameter 72.

c) Position the mechanical stops in both the open and closed positions by tightening them very tightly.



d) Move the gate into the completely CLOSE position.

e) Press TEST button



Possible alarms and safety device messages:

00	No safety device in alarm state and no limit switch activated.
41	STOP contact (N.C.) open. Jumper the STOP contact.
39	Sensing edge contact COS1 (N.C.) is open. Check connection. If sensing edge is not installed, disable with 73 00.
38	Sensing edge contact COS2 (N.C.) is open. Check connection. If sensing edge is not installed, disable with 74 00.
37	Photocell contact FT1 (N.C.) is open. Check connection. If photocell is not installed, disable with 50 00.
36	Photocell contact FT2 (N.C.) is open. Check connection. If photocell is not installed, disable with 53 00.
FE	More than 3 limit switches activated
FA	Gate completely open / Gate open limit switch activated
FC	Gate completely closed / Gate closed limit switch activated
F1	Limit switch on gate leaf 1 error
F2	Limit switch on gate leaf 2 error
20	MOTOR 1 open limit switch activated
21	MOTOR 1 closed limit switch activated
22	MOTOR 2 open limit switch activated
23	MOTOR 2 closed limit switch activated

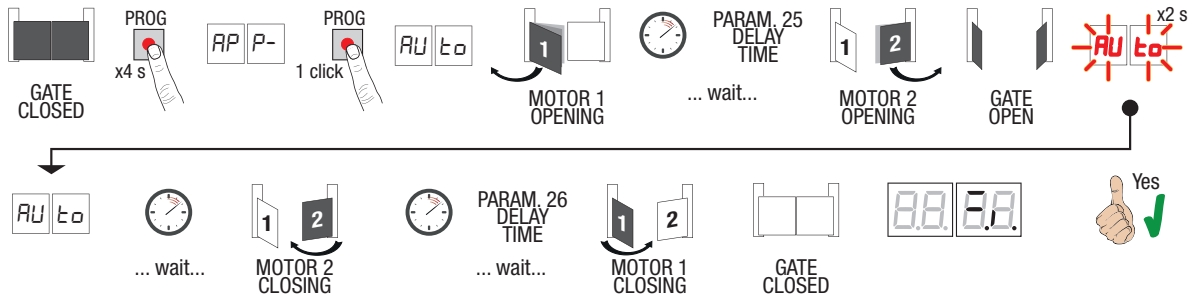
SEE ACQUISITION PROCEDURE

f) Select the appropriate self-acquisition procedure for your installation:

- A) SELF-ACQUISITION PROCEDURE WITH ENCODER ENABLED, WITH OR WITHOUT LIMIT SWITCHES
- B) SELF-ACQUISITION PROCEDURE WITHOUT ENCODER, WITH 2 LIMIT SWITCHES
- C) SELF-ACQUISITION PROCEDURE WITHOUT ENCODER, ONLY OPEN LIMIT SWITCH
- D) SELF-ACQUISITION PROCEDURE WITHOUT ENCODER AND WITHOUT LIMIT SWITCHES

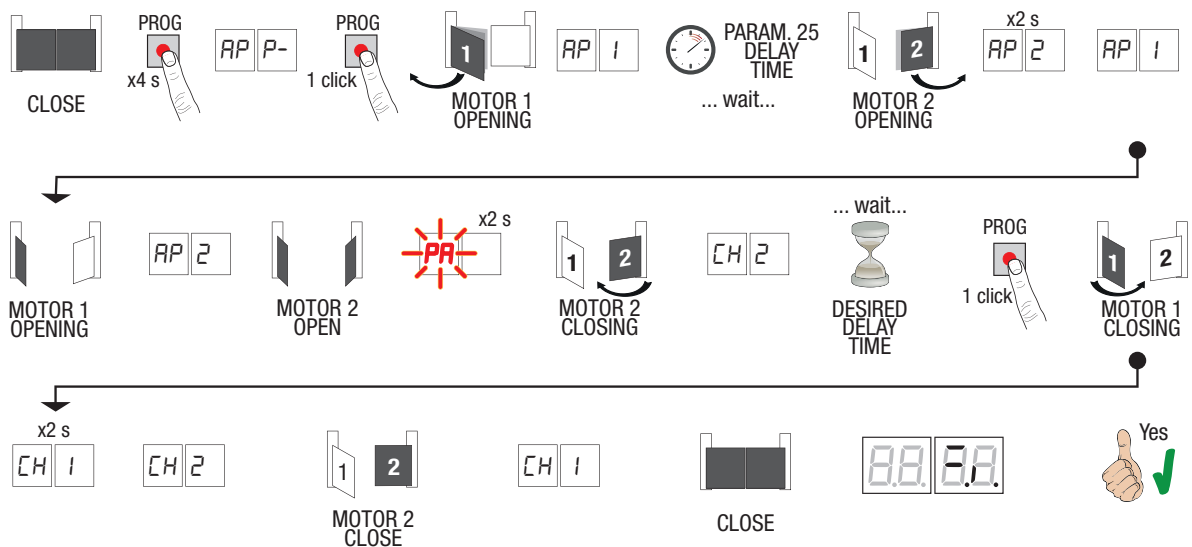
5. Acquisition procedure (with encoder enabled, with or without limit switches - 75 0 1)

1. Press and hold PROG for 4 seconds.
2. APP- appears on the display.
3. Press PROG.
4. AUTO appears on the display.
5. MOTOR 1 starts opening at low speed.
6. After the delay time set with parameter 25, MOTOR 2 starts an opening manoeuvre.
7. Once the gate is open, the message AUTO flashes on the display.
8. The message AUTO stops flashing.
9. MOTOR 2 starts closing.
10. After a delay set with parameter 26, MOTOR 1 closes.
11. When the gate is closed, the safety device symbols are displayed.

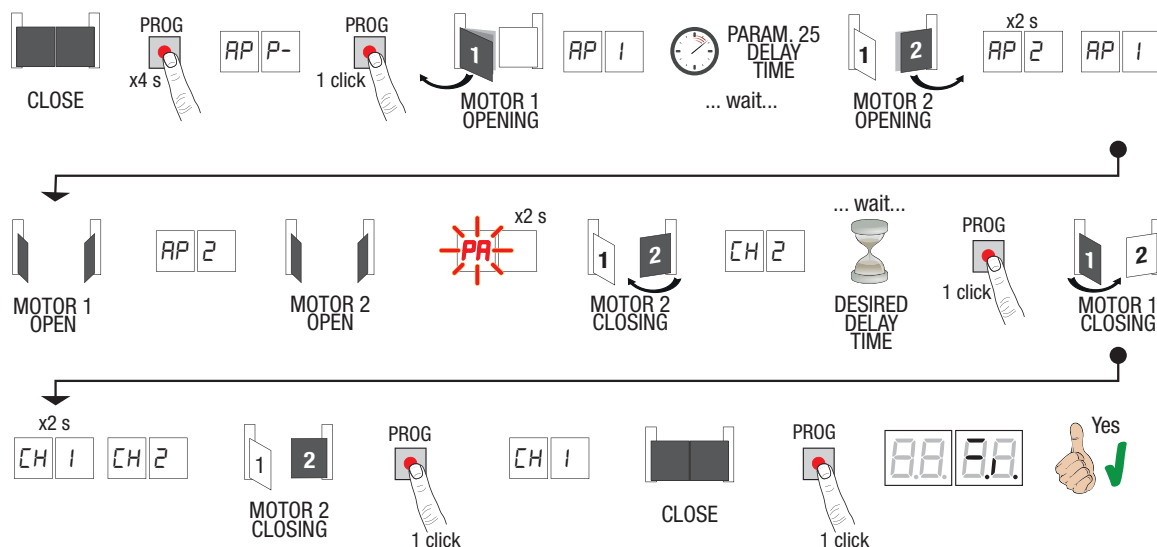


5.1 Acquisition procedure (without encoder, with 2 limit switches)

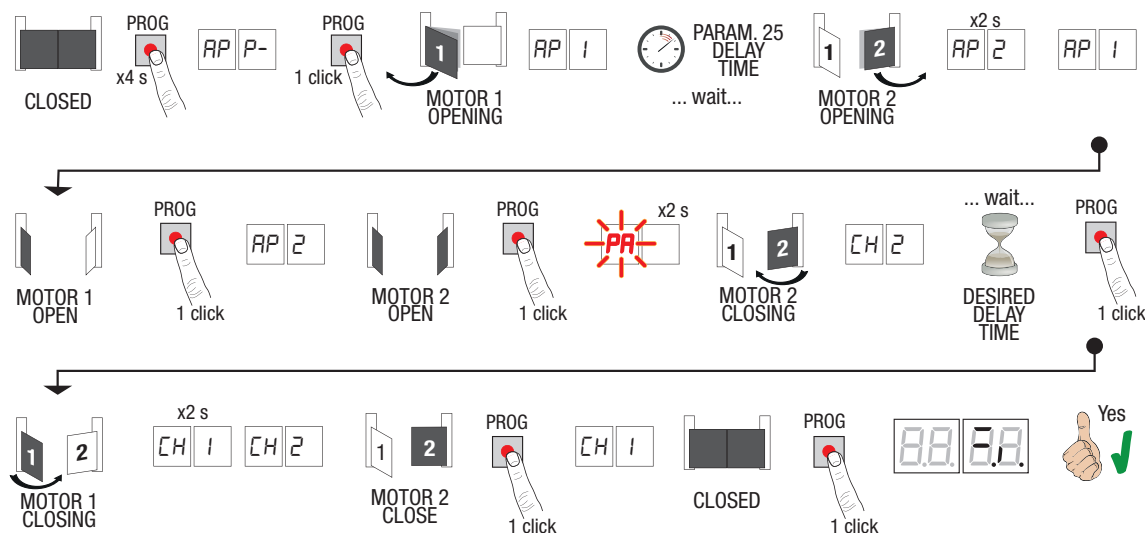
1. Press and hold PROG for 4 seconds.
2. APP- appears on the display.
3. Press PROG.
4. MOTOR 1 starts opening at normal speed.
5. AP1 is shown on the display.
6. After the delay time set with parameter 25, MOTOR 2 starts an opening manoeuvre.
7. AP2 is shown on the display for 2 s, and is immediately followed by AP1.
8. AP2 appears on the display when MOTOR 1 reaches the open limit switch.
9. PA flashes on the display for 2 seconds when MOTOR 2 reaches the open limit switch.
10. After this 2 second interval, MOTOR 2 closes automatically.
11. The message CH2 appears on the display.
12. Press PROG after the required delay period (set automatically with parameter 26).
13. CH1 appears on the display for 2 seconds and is immediately followed by CH2.
14. NOTE: If the parameter is 2600, MOTOR 1 closes at the same time as MOTOR 2.
15. CH1 appears on the display when MOTOR 2 reaches the closed limit switch.
16. The self-acquisition procedure concludes when MOTOR 1 reaches the closed limit switch.
17. When the gate is closed, the safety device symbols are displayed.



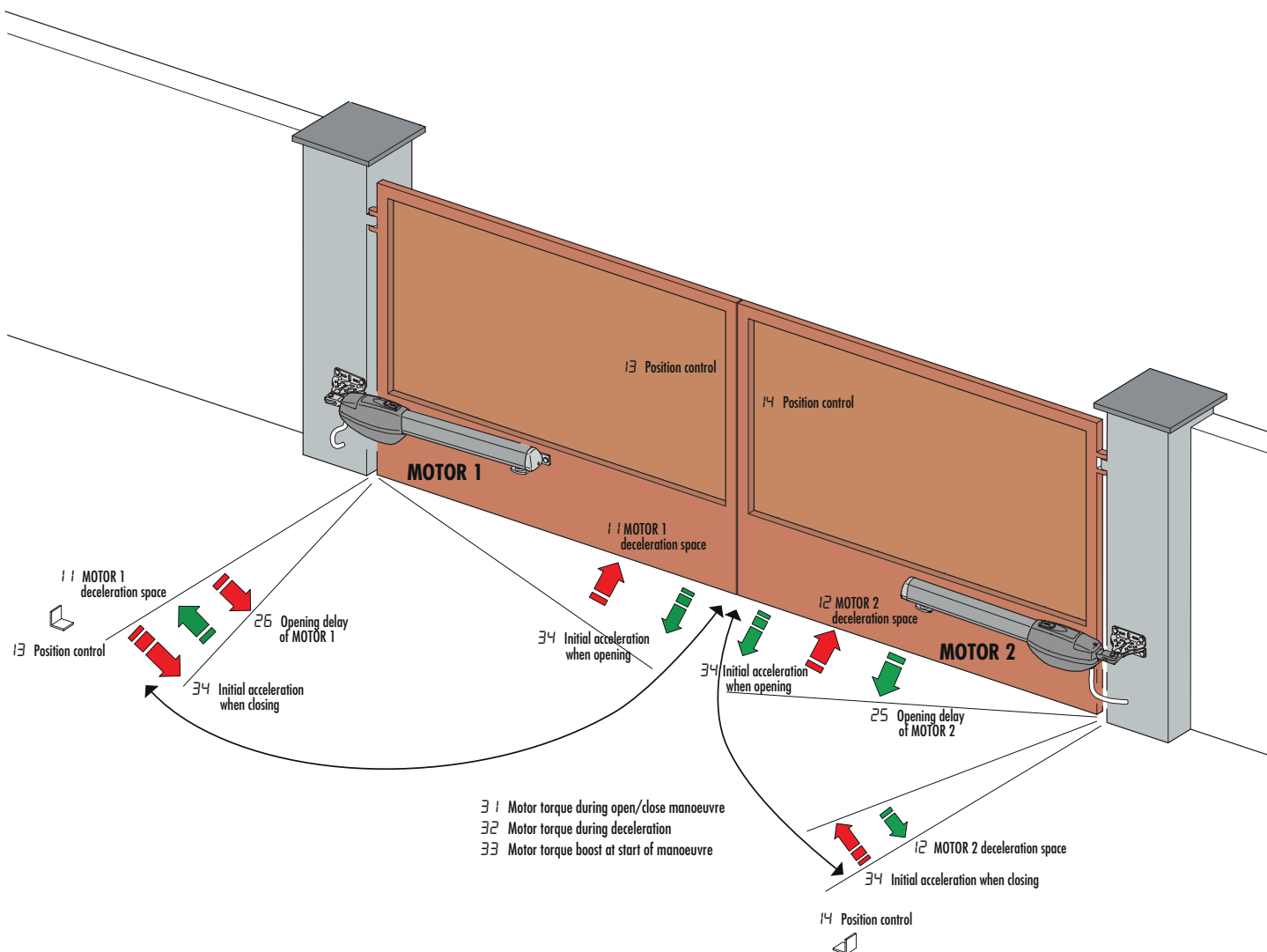
1. Press and hold PROG for 4 seconds.
2. APP- appears on the display.
3. Press PROG.
4. MOTOR 1 starts opening at normal speed.
5. AP1 is shown on the display.
6. After the delay time set with parameter 25, (with a default time setting of 3 s), MOTOR 2 starts an opening manoeuvre.
7. AP2 is shown on the display for 2 s, and is immediately followed by AP1.
8. AP2 appears on the display when MOTOR 1 reaches the open limit switch.
9. PA flashes on the display for 2 seconds when MOTOR 2 reaches the open limit switch.
10. After this 2 second interval, MOTOR 2 closes automatically.
11. The message CH2 appears on the display.
12. Press PROG after the required delay period (set automatically with parameter 26).
13. MOTOR 1 starts to close.
14. NOTE: If the parameter is 2600, MOTOR 1 closes at the same time as MOTOR 2.
15. CH1 appears on the display for 2 seconds and is immediately followed by CH2.
16. When the LEAF 2 reaches the closing mechanical stop, immediately press the PROG key.
17. CH1 appears on the display.
18. When the LEAF 1 reaches the closing mechanical stop, immediately press the PROG key.
19. When the gate is closed, the safety device symbols are displayed.



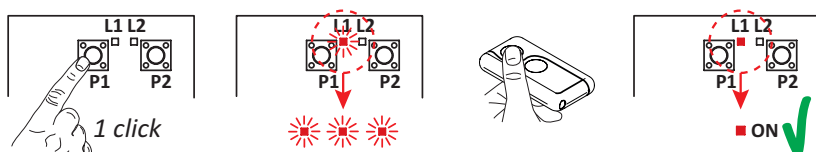
1. Press and hold PROG for 4 seconds.
2. APP- appears on the display.
3. Press PROG.
4. MOTOR 1 starts opening at normal speed. AP1 is shown on the display.
5. After the delay time set with parameter 25 (with a default time setting of 3 s), MOTOR 2 starts an opening manoeuvre.
6. AP2 is shown on the display for 2 s, and is immediately followed by AP1.
7. When the LEAF 1 reaches the opening mechanical stop, immediately press the PROG key. AP2 appears on the display.
8. When the LEAF 2 reaches the opening mechanical stop, immediately press the PROG key. PA flashes on the display for 2 seconds.
9. After this 2 second interval, MOTOR 2 closes automatically. The message CH2 appears on the display.
10. Press PROG after the required delay period (set automatically with parameter 26).
11. MOTOR 1 starts to close. CH1 is shown on the display for 2 seconds, immediately afterwards CH2 appears.
12. NOTE: If the parameter is 2600, MOTOR 1 closes at the same time as MOTOR 2.
13. When the LEAF 2 reaches the closing mechanical stop, immediately press the PROG key. CH1 appears on the display.
14. When the LEAF 1 reaches the closing mechanical stop, immediately press the PROG key.
15. When the gate is closed, the safety device symbols are displayed.



6. Setting basic parameters

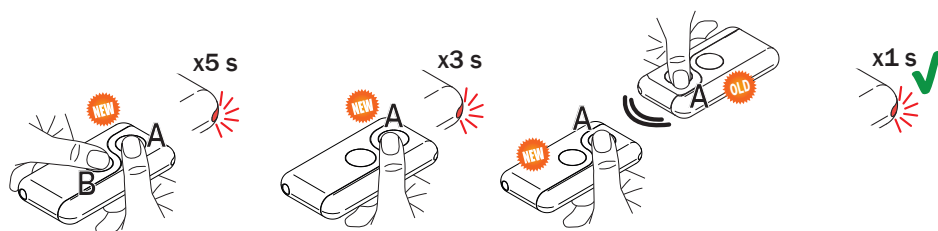


7. Programming a NEW transmitter



1. Press channel P1 (P2) of the receiver.
2. When LED L1 (L2) flashes 3 times (or 4 times with rolling code function), press any button on the transmitter.
3. If LED L1 (L2) remains steadily lit the transmitter has been stored correctly.

8. Copying a transmitter



1. Press buttons A and B on the NEW transmitter simultaneously.
2. The LED flashes for 5 s.
3. Hold button (A) only on the NEW transmitter you want to store.
4. The LED flashes 3 s.
5. Hold the previously stored transmitter as close as possible to the NEW transmitter.
6. Press button (A) on the OLD transmitter.
7. The LED lights for 1 s to confirm that the copy procedure was successful.



This document is a basic quick guide for the initial installation of a BRUSHLESS swing gate motor.

For complete information concerning the control unit, the motor and the accessories mentioned in this quick guide, see the technical manuals available in the B2B area of the website www.rogertechnology.it