



IS43 Rev.04 29/08/2016

# H70/200AC

centrale di comando per 2 motori 230 Vac

Istruzioni originali



IT - Istruzioni ed avvertenze per l'installatore - pag. 9

EN - Instructions and warnings for the installer - pag. 36

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FR - Instructions et consignes pour l'installateur - p. 90

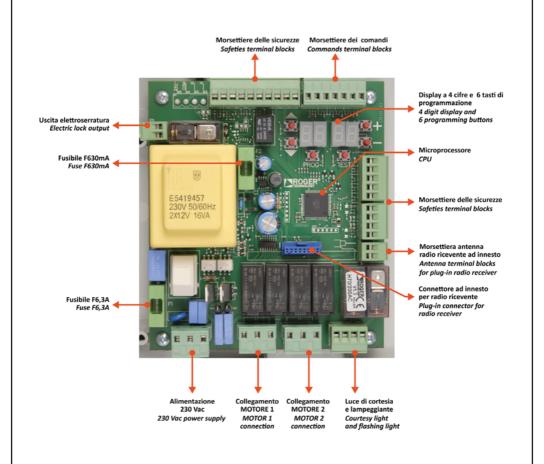
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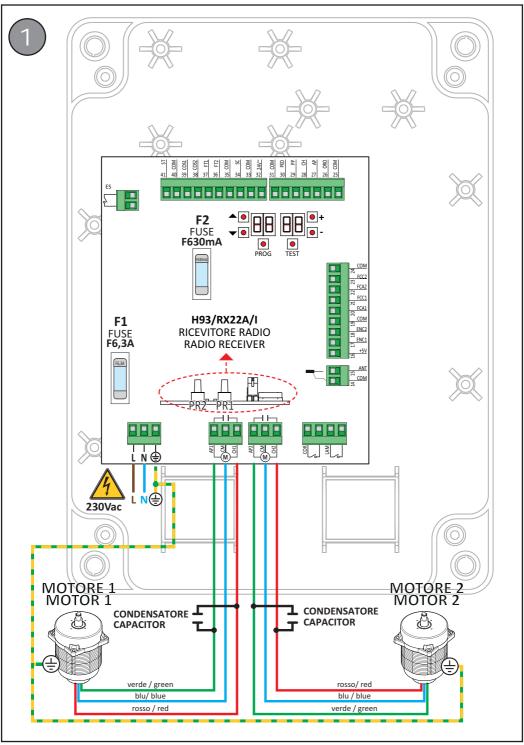


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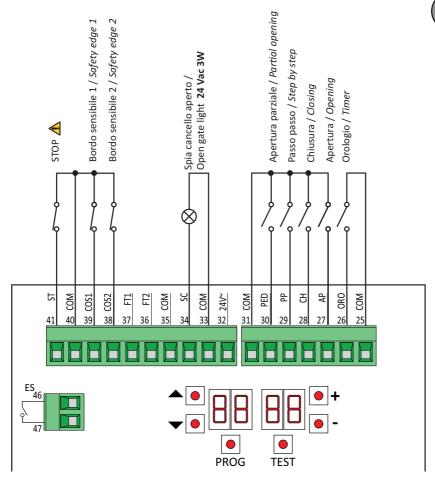
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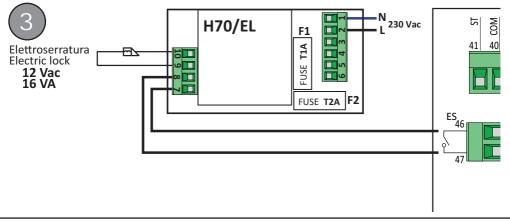


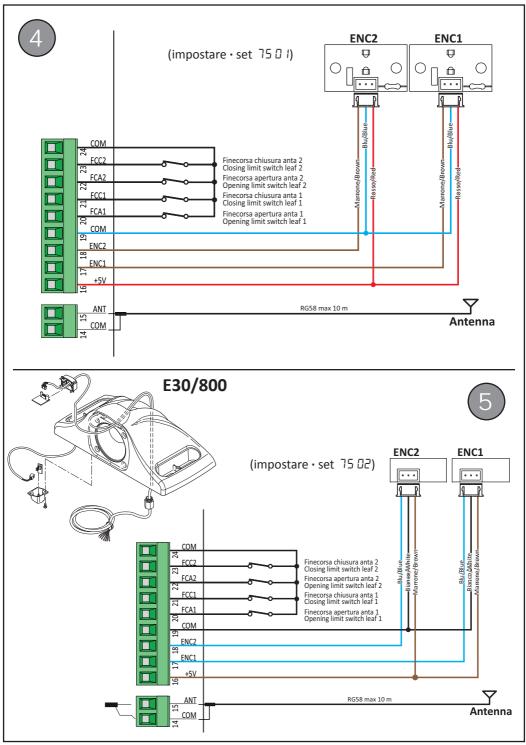
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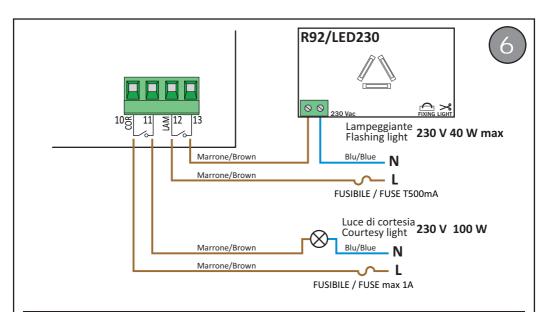


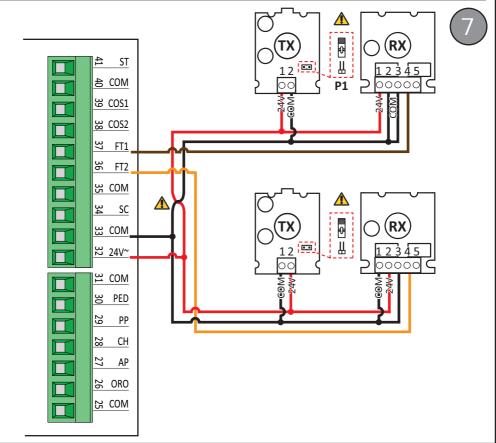






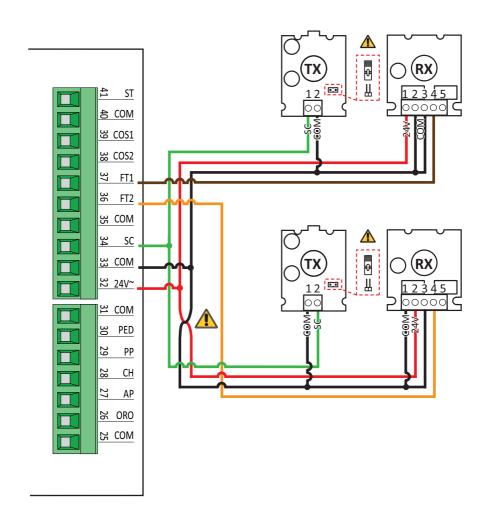








## TEST FOTOCELLULE · PHOTOCELLS TEST (impostare · set ₹8 02)



## **General safety precautions**



Warning: incorrect installation may cause severe damage or injury. Read the instructions carefully before installing the product.

This installation manual is intended for qualified personnel only.

ROGER TECHNOLOGY cannot be held responsible for any damage or injury due to improper use or any use other the intended usage indicated in this manual.

Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with best practices and in compliance with applicable regulations.



Before installing the product, make sure it is in perfect condition.

A switch or an omnipolar cut-off switch with a contact opening of at least 3 mm must be installed on the mains power line.

Ensure that an adequate residual current circuit breaker and a suitable overcurrent cut-out are installed ahead of the electrical installation in accordance with best practices and in compliance with applicable legislation.

The European standards EN 12453 and EN 12455 define the minimum safety requirements for the operation of automatic doors and gates. In particular, these standards require the use of force limiting and safety devices (sensing ground plates, photocell barriers, operator detection function etc.) intended to detect persons or objects in the operating area and prevent collisions in all circumstances.

Where the safety of the installation is based on an impact force limiting system, it is necessary to verify that the characteristics and performance of the automation system are compliant with the requisites of applicable standards and

The installer is required to measure impact forces and programme the control unit with appropriate speed and torque

values to ensure that the door or gate remains within the limits defined by the standards EN 12453 and EN 12455. When requested, connect the automation to an effective earthing system that complies with current safety standards.

Disconnect the mains electrical power before performing any work. Also disconnect any buffer batteries used.

Only use original spare parts when repairing or replacing products.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger.

### Product description

The H70/200AC control unit is intended to control gate automation systems with 1 or 2 asynchronous single phase 230 V AC (or 115 V AC, in case of H70/200AC/115V version) ROGER motors. Use the same type of motor for both gate leaves in automation installations for double leaf swing gates. Adjust the opening and closure speed, deceleration and delay settings appropriately for the specific installation, ensuring that the gate leaves overlap correctly.

### Technical characteristics of product

	H70/200AC/BOX	H70/200AC/115V/BOX	
MAINS POWER VOLTAGE	230 Vac ± 10% 50 Hz	115 Vac ± 10% 60 Hz	
MAXIMUM MAINS POWER ABSORPTION	1400 W		
FUSES	<b>F1</b> = F6,3A 250 V (5x20) motor pow <b>F2</b> = F630mA 250 V (5x20) accessor		
CONNECTABLE MOTORS	2		
MOTOR POWER SUPPLY	230 Vac	115 Vac	
MOTOR TYPE	single-phase asynchronous		
MOTOR CONTROL TYPE	triac phase control		
MAXIMUM MOTOR POWER	600 W		
MAXIMUM POWER, FLASHING LIGHT	40 W 230 Vac - 25 W 24 Vac/dc (po	tential free contact)	
MAXIMUM POWER COURTESY LIGHT	100 W 230 Vac - 25 W 24 Vac/dc (	potential free contact)	
ELECTRIC LOCK POWER	25 W (potential free contact) max.	230 Vac	
GATE OPEN LIGHT POWER	3 W (24 Vac)		
MAXIMUM ACCESSORY CURRENT ABSORPTION	9 W		
OPERATING TEMPERATURE	↓ -20°C ↓ +55°C		
DEGREE OF PROTECTION	IP44		
PRODUCT DIMENSION	dimensions in mm 137x156x43 W	eight: 0,72 kg	

### **Description of connections**

Figures show connection diagrams.

#### 4.1 Electrical connections

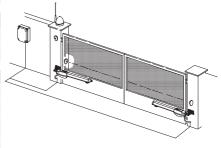
CONNECTING CONTROL PANEL TO MOTORS

CONNECTING CONTROL UNIT TO MAINS	L cable	
ELECTRICITY	1÷15 m	15÷30 m
Power supply 230 Vac $\pm 10\%$ (115 Vac $\pm 10\%$ H70/200AC/115V)	3x1,5 mm²	3x2,5 mm <sup>2</sup>

L cable

1÷20 m

Motor 1	4x1,5 mm²
Motor 2	4x1,5 mm²
CONNECTING CONTROL PANEL TO ACCESSORIES	L cable = 1÷20 m
Photocells - Receiver	4x0,5 mm <sup>2</sup>
Photocells - Transmitter	2x0,5 mm <sup>2</sup>
Keypad <b>H85/TDS</b> - <b>H85/TTD</b> (connecting to control panel to decoder board <b>H85/DEC</b> )	3x0,5 mm²
Key selector R85/60	3x0,5 mm <sup>2</sup>
Limit switches	4x0,5 mm <sup>2</sup>



#### CONNECTING CONTROL PANEL TO FLASHING LIGHT

2x1 mm<sup>2</sup> Power supply 230 Vac by LED (40 W max) (max 10 m)

CONNECTING CONTROL PANEL TO GATE OPEN	L cable
INDICATOR	1÷20 m
Power supply 24 Vdc (3 W max)	2x0,5 mm²
CONNECTING CONTROL PANEL TO COURTESY	L cable



SUGGESTIONS: With existing installations, we recommend checking the cross section of the cables and that the cables themselves are in good condition.

## CONNECTING CONTROL PANEL TO ANTENNA

Cable type RG58 max 10 m

Power supply 230 Vac (100 W power consumption) 2x1 mm<sup>2</sup>

#### DESCRIPTION



Mains power supply 230 Vac ±10% connection. (H70/200AC/115V/BOX: 115 Vac ± 10% 60Hz).

## AP1-CM-CH1

LIGHT



#### Connection to ROGER MOTOR 1.

The gate open and/or gate closed stop limit switches may be connected to the control unit. When a limit switch is activated, power is cut to the motor opening/closing the gate. Connect the gate open limit switch to terminals AP1-CM, and connect the gate closed limit

switch to terminals CH1-CM. N.B.: the value of the capacitor between AP1 and CH1 is indicated in the instructions for the motor installed.

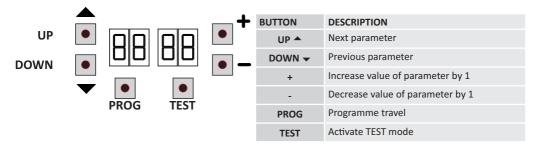


#### Connection to ROGER MOTOR 2.

The gate open and/or gate closed stop limit switches may be connected to the control unit. When a limit switch is activated, power is cut to the motor opening/closing the gate.

Connect the gate open limit switch to terminals AP2-CM, and connect the gate closed limit switch to terminals CH2-CM. N.B.: the value of the capacitor between AP2 and CH2 is indicated in the instructions for the motor installed.

## Function buttons and display



- Press the UP ▲ and/or DOWN buttons to view the parameter you intend to modify.
- Use the + and buttons to modify the value of the parameter. The value starts to flash.
- Press and hold the + or button to scroll quickly through values, to modify the parameter more quickly.
- To save the new value, wait a few seconds or move onto another parameter with the UP o or DOWN button. The
  display flashes rapidly to indicate that the new value has been saved.
- Parameters can only be modified while the motor is not running. Parameters can be viewed at any time.

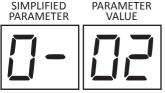
## 6 Switching on or commissioning

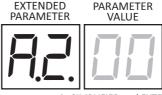
Power the control unit.

The firmware version of the control unit is displayed briefly. See chapter 7.

## 7 Display function modes

#### • Parameter display mode

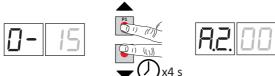




See chapters 10 and 11 for detailed descriptions of the parameters in SIMPLIFIED and EXTENDED mode.

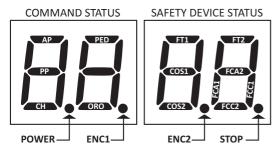
To switch from simplified mode to extended mode.

- the first parameter in extended mode is shown on the display.



Repeat the procedure to return to simplified mode.

#### Command and safety device status display mode



#### COMMAND STATUS:

The command status indicators on the display (segments AP = open, PP = step mode, CH = close, PED = partial opening, ORO= clock) are normally off. They illuminate when a command is received (e.g.: when a step mode command is received, the segment PP illuminates).

#### SAFETY DEVICE STATUS:

The safety device status indicators on the display (segments FT1/FT2=photocells, COS1/COS2 = sensing edge FCA1/FCA2 = gate open limit switches, FCC1/FCC2=gate close

limit switches, ENC1/ENC2 = Encoder, STOP) are normally on. If an indicator is off, the relative device is in alarm state or is not connected. The an indicator is flashing, the relative device has been disabled with a specific parameter.

#### TEST mode

The TEST mode is used to test activation of the commands and safety devices with visual confirmation.

To activate the mode, press the TEST button with the automatic gate system at rest. If the gate is moving, pressing TEST stops the gate. Pressing the button again enables TEST mode.

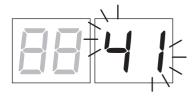
If the flashing light and the gate open indicator lamp illuminate for one second each time a control is used or a safety device is activated.



The command signal status is shown on the left hand side of the display for 5 seconds, ONLY when the respective command signal is active (AP, CH, PP, PE, OR). For example, if the gate open command is activated, the letters AP appear on the display.

The status of the safety devices/inputs is shown on the right hand side of the display. The number of the terminal relative to the safety device in alarm state flashes.

When the gate is completely open or completely closed, FR or FC is shown on the display to indicate that the gate has reached the gate open limit switch FR or gate closed limit switch FC. Example: STOP contact in alarm state.



No safety device in alarm state, and no limit switch activated  Y I STOP  Sensing edge COS1  Sensing edge COS2  Photocell FT1  Photocell FT2  FE More than 3 limit switches activated  FR Gate completely open / Gate open limit switch activated
Sensing edge COS1  Sensing edge COS2  Photocell FT1  FE More than 3 limit switches activated  FR Gate completely open / Gate open limit switch activated
Sensing edge COS2  Photocell FT1  FE More than 3 limit switches activated  FR Gate completely open / Gate open limit switch activated
Photocell FT1  Photocell FT2  FE More than 3 limit switches activated  FR Gate completely open / Gate open limit switch activated
Photocell FT2  FE More than 3 limit switches activated  FA Gate completely open / Gate open limit switch activated
FE More than 3 limit switches activated FR Gate completely open / Gate open limit switch activated
FA Gate completely open / Gate open limit switch activated
Gate completely closed / Gate closed limit switch activated
F   Limit switch on gate leaf 1 error
F2 Limit switch on gate leaf 2 error
MOTOR 1 open limit switch activated
MOTOR 1 closed limit switch activated
MOTOR 2 open limit switch activated
MOTOR 2 closed limit switch activated



**NOTA**: If one or more contacts are open, the gate will not open or close. This does not apply for the limit switch signal state, however, which is shown on the display but does not prevent normal operation of the gate.

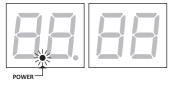
If more than one safety device is in alarm state, once the problem relative to the first device is resolved, the alarm for the next device is displayed. Any further alarm states are also displayed with the same logic.

Press the TEST button again to exit test mode.

After 10 seconds with no user input, the display returns to command and safety device state display mode.

#### Standby mode

This mode is activated after 30 minutes with no user input. The POWER LED flashes slowly. Press UP  $\uparrow$ , DOWN  $\downarrow$ , +,  $\downarrow$  to reactivate the control unit.



## 8 Travel acquisition

For the system to function correctly, the gate travel must be acquired by the control.

#### Before starting:

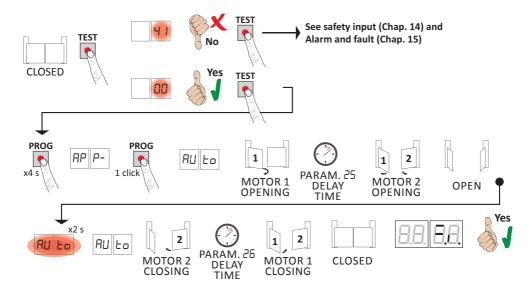
- 1. Select the number of motors installed with the parameter 70. This parameter is set for two motors by default.
- 2. Check that the operator present function is not enabled ( $A7 \ DD$ ).
- 3. Install mechanical stops in both the open and closed positions.
- 4. Move the gate into the closed position.
- 5. Press **TEST** (see TEST mode in chapter 7) and check the command signal and safety device states. If any safety devices are not installed, jumper the relative contact or disable the device from the relative parameter (50, 51, 53, 54, 73 and 74).

Select the appropriate self-acquisition procedure for your installation:

- SELF-ACQUISITION PROCEDURE WITH ENCODER ENABLED, WITH OR WITHOUT LIMIT SWITCHES (see paragraph 8.1).
- B SELF-ACQUISITION PROCEDURE WITH LIMIT SWITCHES, WITHOUT ENCODER (see paragraph 8.2).
- G SELF-ACQUISITION PROCEDURE WITHOUT LIMIT SWITCHES AND WITHOUT ENCODER (see paragraph 8.3).

## **8.1** SELF-ACQUISITION PROCEDURE WITH ENCODER ENABLED, WITH OR WITHOUT LIMIT SWITCHES (M20, H20, H23, E30 Series)





- Press and hold **PROG** for 4 seconds, RP P- is shown on the display.
- Press PROG again. AULo is shown on the display.
- MOTOR 1 starts opening at low speed.
- After the delay time set with parameter 25, (with a default time setting of 3 s) MOTOR 2 starts an opening manoeuvre.
- Once the gate open mechanical stop is reached or the relative limit switch is activated, the gate stops briefly. The message AULD flashes on the display for 2 s.
- When the message <code>AUE</code> stops flashing and is steadily lit on the display, MOTOR 2 closes first and then, after a delay set with parameter 26 (default setting 5 s), MOTOR 1 closes until the gate closed mechanical stop or the relative limit switch is reached.

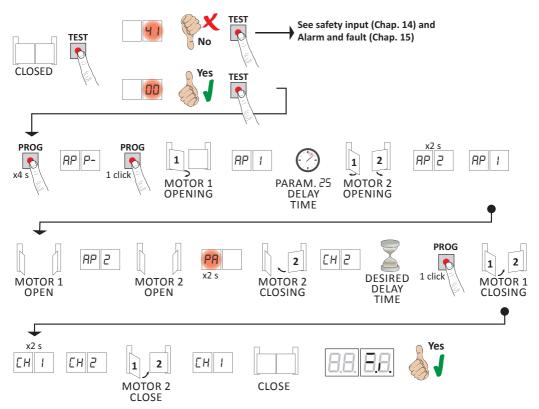
If the acquisition procedure is completed successfully, the display enters the command and safety device state display mode.

If the following error messages are shown on the display, repeat the acquisition procedure:

• AP PE: acquisition error. Press the TEST button to clear the error, and check the safety device in alarm state.

#### i For more information, see chapter 15 "Alarms and faults".

**WARNING:** Before starting the self-acquisition procedure, set parameters 11 and 12 - Deceleration space setting.



- Press and hold **PROG** for 4 seconds. AP P- is shown on the display.
- Press PROG again.
- MOTOR 1 starts opening at normal speed. AP 1 is shown on the display.
- After the delay time set with parameter 25, (with a default time setting of 3 s), MOTOR 2 starts an opening manoeuvre.
   RP2 is shown on the display for 2 s, and is immediately followed by RP1.
- AP2 appears on the display when MOTOR 1 reaches the open limit switch.
- PR flashes on the display for 2 seconds when MOTOR 2 reaches the open limit switch.
- After this 2 second interval, MOTOR 2 closes automatically. The message EH∂ appears on the display.
- Press PROG after the required delay period (set automatically with parameter 26). LH 1 appears on the display for 2 seconds and is immediately followed by LH2.
- [H | appears on the display when MOTOR 2 reaches the closed limit switch.
- The self-acquisition procedure concludes when MOTOR 1 reaches the closed limit switch.

If the acquisition procedure is completed successfully, the display enters the command and safety device state display mode.

If the following error messages are shown on the display, repeat the acquisition procedure:

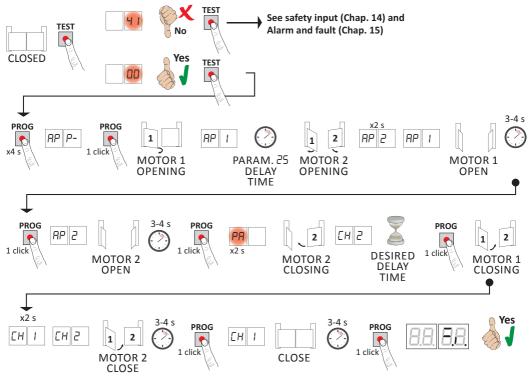
• AP PE: acquisition error. Press the TEST button to clear the error, and check the safety device in alarm state.

i For more information, see chapter 15 "Alarms and faults".

## 8.3 SELF-ACQUISITION PROCEDURE WITHOUT MECHANICAL OR MAGNETIC LIMIT SWITCHES AND WITHOUT ENCODER



**WARNING:** Before starting the self-acquisition procedure, set parameters 11 and 12 - Deceleration space setting.



- Press and hold PROG for 4 seconds. AP P- is shown on the display.
- Press PROG again.
- MOTOR 1 starts opening at low speed. AP 1 is shown on the display.
- After the delay time set with parameter 25 (with a default time setting of 3 s), MOTOR 2 starts an opening manoeuvre. AP2 is shown on the display for 2 s, and is immediately followed by AP1.
- When MOTOR 1 reaches the open position mechanical stop, wait 3-4 seconds then press PROG. AP2 appears on the display.
- When MOTOR 2 reaches the open position mechanical stop, wait 3-4 seconds then press PROG. PR flashes on the display for 2 seconds.
- After this 2 second interval, MOTOR 2 closes automatically. The message *EH2* appears on the display.
- Press PROG after the required delay period (set automatically with parameter 26). MOTOR 1 starts to close. The
  message EH I appears on the display for 2 seconds and is immediately followed by EH2.
- When MOTOR 2 reaches the closed position mechanical stop, wait 3-4 seconds then press PROG. EH I appears on the display.
- When MOTOR 1 reaches the mechanical stop, wait 3-4 seconds then press PROG.

If the acquisition procedure is completed successfully, the display enters the command and safety device state display mode.

If the following error messages are shown on the display, repeat the acquisition procedure:

- AP PE: acquisition error. Press the TEST button to clear the error, and check the safety device in alarm state.
- i For more information, see chapter 15 "Alarms and faults".

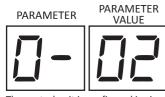
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## 10 Parameter menu in simplified mode



The control unit is configured in simplified display mode by default. See chapter 11 for the extended parameter display mode.

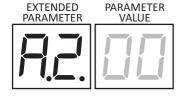
0-02	Select number of motors installed
01	1 motor.
02	2 motors.
1-00	Automatic closure after pause time (from gate completely open)
	Disabled.
0 1- 15	From 1 to 15 of gate closure attempts after photocell is triggered.  Once the number of attempts set is reached, the gate remains open.
99	The gate tries to close indefinitely.
2- 30	<b>Setting automatic closing time</b> The timer starts from the gate open state and continues for the set time. Once the set time is reached, the gate closes automatically. The timer count restarts if a photocell is triggered.
00-90	Pause time settable from 00 to 90 s.
92-99	Pause time settable from 2 to 9 min.
3-00	Automatic gate closing after mains power outage
00	Disabled. The gate does not close automatically when mains power is restored.
01	Enabled. If the gate is NOT completely open, when mains power is restored, the gate closes after a 5 second warning signalled with the flashing light (independently of the value set with the parameter 5-). The gate closes in "position recovery" mode (see chapter 17).
4- 05	Adjusting closing delay of MOTOR 1  During closing, MOTOR 1 starts with an adjustable delay after MOTOR 2.
00	Disabled.
0 1-60	From 0 to 60 s of delay.
5-00	Pre-flashing
00	Disabled. The flashing light is activated during opening and closing manoeuvres.
0 1- 10	Flashing warning signal for 1 to 10 seconds prior to every manoeuvre.
99	5 second flashing warning signal prior to closing manoeuvre.

5- □□ Selecting step mode control function (PP)
Selecting step mode control function (PP)
Open-stop-close-stop-open-stop-close
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I- 00), the condominium function automatically attempts a closing ma-
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Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- DD), the condominium function automatically attempts a closing manoeuvre !- D!.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- DD), the condominium function automatically attempts a closing manoeuvre !- D!.  Open-close-open-close.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- DD), the condominium function automatically attempts a closing manoeuvre !- D!.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- DD), the condominium function automatically attempts a closing manoeuvre !- D!.  Open-close-open-close.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( !- @@), the condominium function automatically attempts a closing manoeuvre !- @ !.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( !- @@), the condominium function automatically attempts a closing manoeuvre !- @ !.  Open-close-open-close.  Open-close-stop-open.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing time restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-open-close.  The frequency is set electronically from the flashing light unit.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Open-close-open-close.  Open-close-open-close.  The frequency is set electronically from the flashing light unit.  Slow flash.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-OD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-OD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  I light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Configuring flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing time restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-00), the condominium function automatically attempts a closing manoeuvre I-0 I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-00), the condominium function automatically attempts a closing manoeuvre I-0 I.  Open-close-open-close. Open-close-open-close. Open-close-stop-open.  Configuring flashing light frequency  Do The frequency is set electronically from the flashing light unit.  I Slow flash. Do Light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  No limit switch installed.  Gate open and close limit switches installed. Finecorsa di apertura installati.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing time restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-00), the condominium function automatically attempts a closing manoeuvre I-0 I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-00), the condominium function automatically attempts a closing manoeuvre I-0 I.  Open-close-open-close.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  Configuring flashing light frequency  Light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  On No limit switch installed.  Gate open and close limit switches installed.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Open-close-open-close. Open-close-open-close. Open-close-open-close. Open-close-stop-open.  Configuring flashing light frequency The frequency is set electronically from the flashing light unit. OI Slow flash. OC Light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  No limit switch installed. Finecorsa di apertura installati.  Set motor torque during open/close manoeuvre N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off the parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off the parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off the parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off the parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off
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Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  If automatic closing is disabled (1-00), the condominium function automatically attempts a closing manoeuvre -01.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing is disabled (1-00), the condominium function automatically attempts a closing manoeuvre -01.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing time does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled (1-00), the condominium function automatically attempts a closing manoeuvre 1-01.  33 Open-close-open-close.  Open-close-open-close.  Open-close-open-close.  Open-close-open-close.  Light flashing light frequency  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Dight flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  Set motor torque during open/close manoeuvre  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  Diabled.  Diabled.  Enable electric lock release reverse impulse  Disabled.  Diabled. Fine one coder is installed, time based control is used. If this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnection i
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Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled (1-00), the condominium function automatically attempts a closing manoeuvre  -0  .  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled (1-00), the condominium function automatically attempts a closing manoeuvre  -0  .  Open-close-open-close.  Open-close-open-close.  Open-close-open-close.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  O   Slow flash.  O   Slow flash.  C   Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  Set motor torque during open/close manoeuvre  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( 1- 00), the condominium function automatically attempts a closing manoeuvre 1- 01.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( 1- 00), the condominium function automatically attempts a closing manoeuvre 1- 01.  Open-close-open-close.  Open-close-open-close.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  O I Slow flash.  O I Light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  No limit switch installed.  Gate open and close limit switches installed.  Finecorsa di apertura installati.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( 1- 00), the condominium function automatically attempts a closing manoeuvre 1- 01.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( 1- 00), the condominium function automatically attempts a closing manoeuvre 1- 01.  Open-close-open-close. Open-close-open-close. Open-close-open-close. Open-close-stop-open.  Configuring flashing light frequency The frequency is set electronically from the flashing light unit. O I Slow flash. OC Light flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.  No limit switch installed. Finecorsa di apertura installati.  Set motor torque during open/close manoeuvre N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power installati.
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Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Configuring flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Configuring flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Configuring flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-OO), the condominium function automatically attempts a closing manoeuvre I-OO.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-OO), the condominium function automatically attempts a closing manoeuvre I-OO.  Open-close-open-close.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.  Collight flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches  N.B.: if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  I Slow flash.  Clisht flashes slowly when gate opens, rapidly when gate closes.  Enable limit switches
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I- D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-open-close.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I- D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-open-close.  Configuring flashing light frequency  The frequency is set electronically from the flashing light unit.  Slow flash.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing time restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-open-close.  The frequency is set electronically from the flashing light unit.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Open-close-open-close.  Open-close-stop-open.  Configuring flashing light frequency
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Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Open-close-open-close.  Open-close-stop-open.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- @@), the condominium function automatically attempts a closing manoeuvre !- @ !.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- @@), the condominium function automatically attempts a closing manoeuvre !- @ !.  Open-close-open-close.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- DD), the condominium function automatically attempts a closing manoeuvre !- D!.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- DD), the condominium function automatically attempts a closing manoeuvre !- D!.  Open-close-open-close.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- @@), the condominium function automatically attempts a closing manoeuvre !- @ !.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- @@), the condominium function automatically attempts a closing manoeuvre !- @ !.  Open-close-open-close.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-DI.
Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing manoeuvre I-D I.  Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I-DD), the condominium function automatically attempts a closing ma-
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- 00), the condominium function automatically attempts a closing manoeuvre !- 0!.  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer does NOT restart if a new step mode command is received.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( I- DD), the condominium function automatically attempts a closing manoeuvre I-DI.  Condominium function: the gate opens and closes after the set automatic closing time.
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required.  If automatic closing is disabled ( !- 00), the condominium function automatically attempts a closing ma-
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing timer restarts if a new step mode command is received.  Step mode commands are ignored while the gate is opening. This allows the gate to open completely and
Open-stop-close-stop-open-stop-close  Condominium function: the gate opens and closes after the set automatic closing time.  The automatic closing time restarts if a new step mode command is received.
Open-stop-close-stop-open-stop-close
D- DD Selecting step mode control function (PP)
C_ [II] Solosting stop mode control function (DD)

📭 Magnetic encoders installed (1 pulse/revolution). Only the **E30** series uses magnetic encoders.

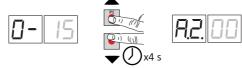


## 11 Parameter menu in extended mode



To switch from simplified mode to extended mode.

- press and hold the UP and DOWN buttons simultaneously for 4 seconds;
- the first parameter in extended mode is shown on the display.



Repeat the procedure to return to simplified mode.

집 Open-close-stop-open.

**WARNING!** The sequence of parameters in simplified mode is not the same as the sequence in extended mode - always refer to the instruction manual.

AS 00	Automatic closure after pause time (from gate completely open)
00	Disabled.
0 1- 15	From 1 to 15 of gate closure attempts after photocell is triggered.  Once the number of attempts set is reached, the gate remains open.
99	The gate tries to close indefinitely.

A3 00	Automatic gate closing after mains power outage
00	Disabled. The gate does not close automatically when mains power is restored.
01	Enabled. If the gate is NOT completely open, when mains power is restored, the gate closes after a 5 second warning signalled with the flashing light (independently of the value set with the parameter $\beta$ ). The gate closes in "position recovery" mode (see chapter 17).

A4 00	Selecting step mode control function (PP)	
00	Open-stop-close-stop-open-stop-close	
01	Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing time restarts if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( $A200$ ), the condominium function automatically attempts a closing maneuvre $A201$ .	
02	Condominium function: the gate opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the gate is opening. This allows the gate to open completely and prevents the gate from closing when not required. If automatic closing is disabled ( $APPPOPP$ ), the condominium function automatically attempts a closing manoeuvre $PPPPOPPPOPP$ 1.	
☐ Open-close-open-close.		

parameter.    12   15   Set MOTOR 2 deceleration space (%)				
Flashing warning signal for 1 to 10 seconds prior to every manoeuvre.   99   5 second flashing warning signal prior to closing manoeuvre.   10	AS 00	Pre-flashing Pre-flashing		
Condominium function for partial open command (PED)  Disabled. The gate opens partially in step mode: open-stop-close-stop-open  I Enabled. Partial commands are ignored during gate opening.  Enabling operator present function.  Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open. The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.	00			
Condominium function for partial open command (PED)  Disabled. The gate opens partially in step mode: open-stop-close-stop-open  Enabled. Partial commands are ignored during gate opening.  Enabled. Partial commands are ignored during gate opening.  Enabled. Partial commands are ignored during gate opening.  Enabled. Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open. The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres. If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Enabled. Partial commands are ignored during gate opening.  Bate open indicator photocell test function  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set D2 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.	0 1- 10	Flashing warning signal for 1 to 10 seconds prior to every manoeuvre.		
Disabled. The gate opens partially in step mode: open-stop-close-stop-open  I Enabled. Partial commands are ignored during gate opening.  Enabling operator present function.  Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set D2 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	99	5 second flashing warning signal prior to closing manoeuvre.		
Disabled. The gate opens partially in step mode: open-stop-close-stop-open  I Enabled. Partial commands are ignored during gate opening.  Enabling operator present function.  Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set D2 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the				
Enabling operator present function.  Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set D2 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	A6 00	Condominium function for partial open command (PED)		
Enabling operator present function.  Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	00	Disabled. The gate opens partially in step mode: open-stop-close-stop-open		
Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open. The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres. If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set ### Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.	01	Enabled. Partial commands are ignored during gate opening.		
Disabled.  Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open. The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres. If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set ### Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.	חם חח	Fuchling analysis and section		
Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the gate. The gat stops when the button is released.  Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open. The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres. If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set ### WOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the				
Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	UU			
Gate open indicator / photocell test function  The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.  The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	01			
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The indicator flashes slowly during opening manoeuvres, and is lit steadily when the gate is completely open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set ### Set ### Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.	A8 00	Gate open indicator / photocell test function		
open. It flashes quickly during closing manoeuvres.  If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	00	The indicator is off when the gate is closed, and steadily lit during manoeuvres and when the gate is open.		
If the gate is stopped in an intermediate position, the lamp extinguishes twice every 15 seconds.  Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%)  N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the				
Set 02 if the output SC is used for the photocell test. See fig. 8.  Set MOTOR 1 deceleration space (%) N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the parameter.  Set MOTOR 2 deceleration space (%) N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to the	U I			
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N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to th	11 15	N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to this		
	12 15	N.B.: if no encoder is installed, repeat the travel acquisition procedure after any change made to this		
☐ I-∃☐ From 1% to 30% of the total gate travel.	0 1-30	From 1% to 30% of the total gate travel.		
Adjusting LEAF 1 position control  The value selected must ensure that LEAF 1 is enemed/closed correctly when it reaches the respective	13 10	Adjusting LEAF 1 position control  The value selected must ensure that LEAF 1 is opened/closed correctly when it reaches the respective		
mechanical stop.				
Warning! Excessively low values cause the gate to reverse when it reaches the gate open/closed stop.				
(72 00 or 72 02).		<b>N.B.</b> : parameter visible only with encoder enabled ( $75  \Box$ f or $75  \Box$ 2) and if limit switches are not installed ( $72  \Box$ 0 or $72  \Box$ 2).		
Adjusting LEAF 2 position control  The value selected must ensure that LEAF 2 is opened/closed correctly when it reaches the respective mechanical stop.	14 10	The value selected must ensure that LEAF 2 is opened/closed correctly when it reaches the respective		
Warning! Excessively low values cause the gate to reverse when it reaches the gate open/closed stop. <b>N.B.:</b> parameter visible only with encoder enabled (75 の f or 75 の and if limit switches are not installe (72 の or 72 の ).		N.B.: parameter visible only with encoder enabled (75 0 for 75 02) and if limit switches are not installed		
☐ I-4☐ Motor revolutions.	0 1-40	Motor revolutions.		
	<i>(</i> 5.55			
Partial opening adjustment (%)  N.B.: with double leaf swing gate installations, this parameter is set by default as the completely open position of LEAF 1.  With single leaf swing gate installations, this parameter is set to 50% of total opening.	15 33	N.B.: with double leaf swing gate installations, this parameter is set by default as the completely open position of LEAF 1.		
With single leaf swing gate installations, this parameter is set to 50% of total opening.		With single lear swing gate installations, this parameter is set to 30% of total opening.		

16 00	Setting additional time after direction inversion, with no encoder N.B.: parameter visible only if encoder is disabled 75 00. In the event of photocell activation or a reverse command during an opening or closing manoeuvre, the gate reverses for the elapsed manoeuvre time plus an additional time to allow the manoeuvre to be completed.	
00	3 s.	
01	6 s. Recommended setting for installations with hydraulic motors.	
2130	<b>Setting automatic closing time</b> The timer starts from the gate open state and continues for the set time. Once the set time is reached, the gate closes automatically. The timer count restarts if a photocell is triggered.	
00-90	Pause time settable from 00 to 90 s.	
92-99	Pause time settable from 2 to 9 min.	
22 20	Set MOTOR 1 manoeuvre time  N.B.: parameter visible only if encoder is disabled 75 00.  Warning! Modifying this parameter influences the deceleration setting (parameter 11).	
23 20	Set MOTOR 2 manoeuvre time  N.B.: parameter visible only if encoder is disabled 75 00.  Warning! Modifying this parameter influences the deceleration setting (parameter 12).	
00-99	Manoeuvre time settable from 00 to 99 s.	
24 00	Enable double manoeuvre time Enabling this parameter is recommended for installations with particularly long operating times.  N.B.: parameter visible only if encoder is disabled 75 00.	
00	Disabled.	
01	Enabled.	
25 03	Adjusting opening delay of MOTOR 2 During opening, MOTOR 2 starts with an adjustable delay after MOTOR 1.	
00- 10	00- 10 From 0 to 10 s.	
26 05	Adjusting closing delay of MOTOR 1 During closing, MOTOR 1 starts with an adjustable delay after MOTOR 2.	
00-60	From 0 to 60 s.	
20 02	Setting reverse time after activation of sensing edge or obstacle detection (crush prevention).  This sets the reverse manoeuvre time after activation of the sensing edge or the obstacle detection system.	
00-60	From 0 to 60 s.	
2801	Set electric lock activation lead time Sets the electric lock activation time before any manoeuvre.	
00-02	From 0 to 2 s.	
29 03	Enable electric lock Sets duration of electric lock activation time.	
חח	Disabled.	
0 1-06	Enabled, with time from 1 to 6 s.  This parameter must be set to a value higher than parameter 38 (if enabled).	

30 00	Enable anti-disturbance filter for power from generator	
01	Disabled.	
02	Enabled. This parameter enables a supplementary digital filter function to improve the operation of the co trol unit when powered by a generator and optimise motor control.	
Set motor torque during open/close manoeuvre This parameter must always be equal to or less than the value set for parameter 33.		
0 1-08	7  - □8   1 = minimum motor torque 8 = maximum motor torque.	
32 □6 Set motor torque during deceleration		
0 1-08	1 = minimum motor torque 8 = maximum motor torque.	
33 08	Set motor torque boost at start of manoeuvre	
0 1-08	1 = minimum motor torque 8 = maximum motor torque.	
34 02	Set initial acceleration when opening/closing (soft-start)	
	Disabled.	
0 1-02	Enabled. The gate accelerates slowly and progressively at the start of the manoeuvre.	
03-04	Enabled. The gate accelerates even more slowly and progressively at the start of the manoeuvre. N.B.: values available only if encoder is enabled ( $75\Omega$ / $75\Omega$ 2). Setting a value of $\Omega$ 4 is not recommended for heavy gates.	
35 OB	Set motor torque after activation of sensing edge or encoder.	
00	Disabled. Torque applied is the value set for parameter ∃ 1.	
0 1-08	1 = minimum motor torque 8 = maximum motor torque.	
36 03	<b>Enable maximum torque boost at start of manoeuvre</b> If this parameter is enabled, each time the motor starts the maximum boost torque is applied for a settable period of time to allow the gate to start moving.	
00-20	From 0 to 20 s.	
37 00	Set open/closed stop approach distance	
00	Disabled.	
	$0 \ l = 0.5 \ m$ long gate leaf; $02 = 1 \ m$ long gate leaf; $03 = 1.5 \ m$ long gate leaf; $04 = 2 \ m$ long gate leaf; $05 = 0.5 \ m$ long gate leaf; $05 = 0.5 \ m$ long gate leaf; $0.5 = 0.5 \ m$ long gate leaf; $0.5$	
0 1-05	If this function is enabled, the torque applied is reduced during the final part of the gate travel to reduce gate vibration when it reaches the stop.  On installations with an electric lock, the torque applied is increased during the final part of the closing travel to ensure that the lock latches correctly. On installations with no electric lock, the torque applied is reduced during the final part of the gate travel to reduce gate vibration.  N.B.: parameter visible only if encoder is enabled 75 0 i.	
38 00	Enable electric lock release reverse impulse	
00	Disabled.	
0 1-04	Enabled. At the start of each opening manoeuvre, the control unit applies a brief closing force (settable from 1 to 4 s) to release the electric lock.  Enabling the electric lock release reverse impulse function automatically enables parameters 28 0 (electric lock lead time = 1 s) and 29 03 (electric lock activation time = 3 s).	

53 03	∃ Setting photocell mode during gate opening (FT2)		
00	DISABLED. Photocell is not active or not installed.		
01	STOP. The gate stops and remains stationary until the next command is received.		
02	IMMEDIATE REVERSE. The gate reverses immediately if the photocell is activated during gate open		
03	TEMPORARY STOP. The gate stops as long as the photocell is obstructed. The gate resumed opening when the photocell is cleared.		
DELAYED REVERSE. The gate stops if the photocell is obstructed. The gate closes when the photocel cleared.			
CU TU Setting photocell mode during gate closing (ET2)			
Setting photocell mode during gate closing (FT2)  DISABLED. Photocell is not active or not installed.			
	STOP. The gate stops and remains stationary until the next command is received.		
IMMEDIATE REVERSE. The gate reverses immediately if the photocell is activated during gate closure.  TEMPORARY STOP. The gate stops as long as the photocell is obstructed. The gate resumed closing with the photocell is cleared.  DELAYED REVERSE. The gate stops if the photocell is obstructed. The gate opens when the photocell is cleared.			
		55 []   Photocell (FT2) mode with gate closed	
		00	If the photocell is obstructed, the gate cannot open.
	The gate opens when an open command is received, even if the photocell is obstructed.		
02	The photocell sends the gate open command when obstructed.		
55 00 Enable close command 6 s after activation of photocell (FT1-FT2)  N.B.: This parameter is not visible if AB 03 or AB 04 is set.			
00	Disabled.		
01	Enabled. When the photocell gate FT1 is crossed, a close command is sent 6 seconds later.		
☐☐ Enabled. When the photocell gate FT2 is crossed, a close command is sent 6 seconds later.			
60 00	<b>6</b> □ □□ Enable braking at open and closed mechanical stop/limit switch		
00	Disabled.		
01	Enabled. The gate brakes at the end of the manoeuvre against the mechanical open and/or closed stop.		
6100	Enable braking after activation of photocells		
00	Disabled.		
☐ I Enabled. The gate brakes when the photocells are activated.			
<b>62 □□</b> Enable braking after STOP command			
00	Disabled.		
01	Enabled. The gate brakes when the control unit receives a STOP command.		
63 00	Enable braking after open → close / close → open inversion		
00	Disabled.		
01	Enabled. The gate brakes before inverting direction when the control unit receives a close command while the gate is opening, or an open command while the gate is closing.		

V		
64 05	Set braking time WARNING: preferably set low values to ensure that the gate stops correctly.	
0 1-20	☐ I-2☐ Settable from 1 to 20 tenths of a second.	
65 08	Set braking force WARNING: preferably set low values to ensure that the gate stops correctly.	
0 1-08	☐ I- ☐ I = minimum force 8 = maximum force.	
20 07	<b>Select number of motors installed N.B.:</b> if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.	
01	1 motor.	
02	2 motors. <b>IMPORTANT</b> : Use the same type of motor for both gate leaves.	
סס 2ר	<b>Enable limit switches N.B.:</b> if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then reconnect to mains power. Repeat acquisition procedure.	
00	No limit switch installed.	
01	Gate open and close limit switches installed.	
Gate open limit switches installed.		
רח רר	Confirming consists oder COS1	
73 03	Configuring sensing edge COS1	
00	Sensing edge NOT INSTALLED.	
00 0 I	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.	
00 1 02	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.	
00 00 00	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.  NC contact (normally closed). The gate always reverses.	
00 00 00	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.	
00 1 0 20 03 40	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.	
00 1 0 20 3 03 04	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2	
00 0 1 02 03 04 04	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.	
00 1 0 20 03 04 04 1 0 <b>PF</b> 1 0	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.	
00 1 0 23 03 04 1 0 <b>PF</b> 1 0 1 0	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate reverses only when opening.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when closing.	
00 02 03 04 04 10 <b>PF</b> 00 00 02	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate always reverses.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when closing.  Contact with 8k2 resistor. The gate reverses only when closing.	
00 1 0 20 03 04 10 00 1 0 20 20 20	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate always reverses.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when closing.  Contact with 8k2 resistor. The gate reverses only when closing.  NC contact (normally closed). The gate always reverses.	
00 02 03 04 04 10 <b>PF</b> 00 00 02	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate always reverses.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when closing.  Contact with 8k2 resistor. The gate reverses only when closing.  NC contact (normally closed). The gate always reverses.	
00 01 02 03 04 <b>14 01</b> 00 01 02 03 04	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate always reverses.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when closing.  Contact with 8k2 resistor. The gate reverses only when closing.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configure encoder  N.B.: if no encoder is installed, time based control is used.  if this parameter is modified, disconnect from 230 V AC mains power, wait for the display to turn off then	
00 01 02 03 04 74 01 00 01 02 03 04	Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when opening.  Contact with 8k2 resistor. The gate always reverses.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Configuring sensing edge COS2  Sensing edge NOT INSTALLED.  NC contact (normally closed). The gate reverses only when closing.  Contact with 8k2 resistor. The gate reverses only when closing.  NC contact (normally closed). The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.  Contact with 8k2 resistor. The gate always reverses.	

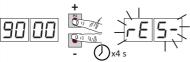
76 00	Configuring radio channel 1 (PR1)
ום דר	Configuring radio channel 2 (PR2)
00	STEP MODE.
01	PARTIAL OPENING
02	OPENING
03	CLOSING.
04	STOP.
05	Courtesy light. The output COR is managed from the remote control. The light remains lit as long as the remote control is active. The parameter 79 is ignored.
06	Courtesy light ON-OFF (PP). The output COR is managed from the remote control. The remote control turns the courtesy light on and off. The parameter 79 is ignored.
רם	FLASHING LIGHT. The FLASHING LIGHT output is managed from the remote control. The light remains lit as long as the remote control is active. The parameter $78$ is ignored.
08	FLASHING LIGHT ON-OFF. The FLASHING LIGHT output is managed from the remote control. The remote control turns the courtesy light on and off. The parameter 78 is ignored.

78 00	Configuring flashing light frequency	
00	The frequency is set electronically from the flashing light unit.	
01	🛘 I Slow flash.	
02	Light flashes slowly when gate opens, rapidly when gate closes.	

	ום כו	Selecting courtesy light mode	
Disabled.  DISENTED PULSE. The courtesy light illuminates briefly at the start of each manoeuvre.  ACTIVE. The light remains lit for the entire duration of the manoeuvre.  The light remains lit for the time period set after the manoeuvre is completed.  Prom 2 to 9 minutes. The light remains lit for the time period set after the manoeuvre is completed.		Disabled.	
		PULSE. The courtesy light illuminates briefly at the start of each manoeuvre.	
		ACTIVE. The light remains lit for the entire duration of the manoeuvre.	
		From 2 to 9 minutes. The light remains lit for the time period set after the manoeuvre is completed.	

Clock contact configuration When the clock function is active, the gate opens and remains open. At the end of the programmed time set with the external device (clock), the gate closes.	
00	When the clock function is active, the gate opens and remains open. Any command signal received is ignored.
01	When the clock function is active, the gate opens and remains open. Any command signal received is accepted. When the gate returns to the completely open position, the clock function is reactivated.

## Restoring factory default values NOTE This procedure is only possible is NO data protection password is set.



**Warning!** Restoring default settings cancels all settings made previously: after restore, check that all parameters are suitable for the installation.

The default factory settings may also be restored using the UP ▲ and/or DOWN ▼ buttons as follows:

- Turn off the power.
- Press and hold the UP ▲ and DOWN button until the unit switches on.
- The display flashes after 4 s ~ E5-.
- The default factory settings have now been restored.

	Identification number  The identification number consists of the values of the parameters from n\overline{O} to n\overline{D}.		
n0 0 I	N.B.: The values shown in the table are indicative only.  HW version.		
n123	Year of manufacture.		
n2 45	Week of manufacture.		
n3 67	Week of manufacture.	Example: 0   23 45 67 89 0   23	
n4 89	Serial number.		
n5 01			
n6 23	FW version.		
	View manoeuvre counter  The number consists of the values of the parameters from all to all multiplied by 100.  N.B.: The values shown in the table are indicative only.		
0001	Manoeuvres performed.		
0123	Example: $\Box I \supseteq \exists x100 = 12.300 \text{ manoeuvres}.$		
	View manoeuvre hour counter  The number consists of the values of the parameters from hall to hall.  N.B.: The values shown in the table are indicative only.		
h001			
h123			
	View control unit days on counter  The number consists of the values of the parameters from days to days.  N.B.: The values shown in the table are indicative only.		
d0 0 l			
9153	Days with unit switched on. Example: ☐ I 2∃ = 123 days.		
0,52			
	<b>Password</b> Setting a password prevents unauthorised persons from accessing the settings. With password protection active ( $EP=III$ ), parameters may be viewed, but the values CANNOT be modified. Only a single password is used to control access to the gate automation system.		
	Only a single password is used to control access to the gate automation system.  WARNING: Contact the Technical Support Service if you lose your password.		
P100	• Enter the desired values for parameters P1, P2, P3 and P4. • Use the UP ▲ and/or DOWN ▼ buttons to view the parameter CP. • Press and hold the + and - buttons for 4 seconds.		
P4 00			
<ul> <li>Enter the password (EP=□□).</li> </ul>			
	<ul> <li>Save the values P 1, P2, P3, P4 = 00</li> <li>Use the UP ▲ and/or DOWN ▼ buttons to view the parameter EP.</li> <li>Press and hold the + and - buttons for 4 seconds.</li> <li>The display flashes to confirm that the password has been cancelled (the values P 100, P2 00, P3</li> </ul>		
PY DD indicate that no password is set).  • Switch the control unit off and on again (CP=DD).			
CO 00			
CP 00	Changing password		

☐☐ Protection deactivated. ☐ I Protection activated.

## **12** Commands and Accessories



If not installed, safety devices with NC contacts must be jumpered at the COM terminals, or disabled by modifying the parameters 50, 51, 53, 54,73 and 74.

KEY:

N.A. (Normally Open). N.C. (Normally Closed).

CONTACT	DESCRIPTION	
10(COR) 11	Output (potential free contact) for connecting courtesy light. 230 Vac 100 W - 24 Vac/dc 40 W (fig. 6).	
12(LAM) 13	Connection for flashing light (potential free contact) 230 Vac 40 W (fig. 6). The settings for the pre-manoeuvre flashing warning signal may be selected with parameter $R5$ , while the flashing mode is set with parameter $78$ .	
14 15(ANT)	Antenna connector for slot-in radio receiver board. Use RG58 if an external antenna is used; maximum recommended length: 10 m. N.B.: do not make joints in cable.	
16 17 19 COM	ENCODER 1 connection (fig .4-5). Encoders are disabled by default (75 $\overline{00}$ ). WARNING! Always disconnect from electrical power before disconnecting or connecting the encoder cable.	
16 18 19 8 S S S S S S S S S S S S S S S S S S	ENCODER 2 connection (fig. 4-5). Encoders are disabled by default (75 00).  WARNING! Always disconnect from electrical power before disconnecting or connecting the encoder cable.	
20(FCA1) 24(COM)	Input (N.C.) for connecting open limit switch for MOTOR 1 (fig.4). Use a 4x0.5 mm² cable to connect the limit switch to the control unit. The gate stops when the limit switch is activated.	
21(FCC1) 24(COM)	Input (N.C.) for connecting closed limit switch for MOTOR 1 (fig.4). Use a 4x0.5 mm² cable to connect the limit switch to the control unit. The gate stops when the limit switch is activated.	
22(FCA2) 24(COM)	Input (N.C.) for connecting open limit switch for MOTOR 2 (fig.4). Use a 4x0.5 mm² cable to connect the limit switch to the control unit. The gate stops when the limit switch is activated.	
23(FCC2) 24(COM)	Input (N.C.) for connecting closed limit switch for MOTOR 2 (fig.4). Use a 4x0.5 mm² cable to connect the limit switch to the control unit. The gate stops when the limit switch is activated.	
26(ORO) 25(COM)	Clock timer contact input (N.O.).  When the clock function is active, the gate opens and remains open.  At the end of the programmed time set with the external device (clock), the gate closes.	
27(AP) 31(COM)	Open control signal input (N.O.).	
28(CH) 31(COM)	Close command input (N.O.).	
29(PP) 31(COM)	Step by step mode command input (N.O.). The function of the control is determined by parameter R4.	

М 1	

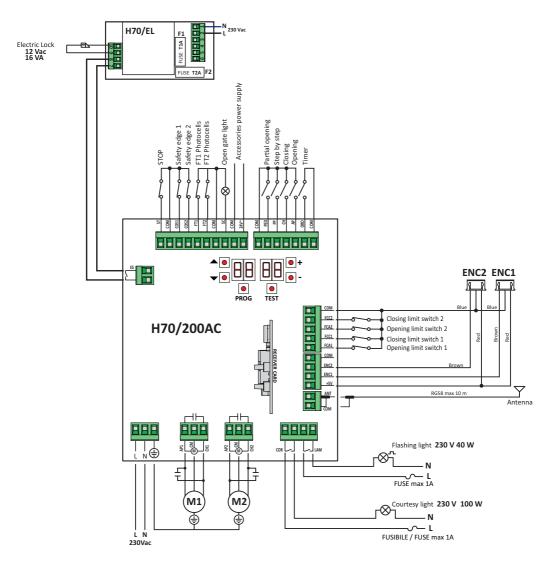
CONTACT	DESCRIPTION
30(PED) 31(COM)	Partial open control signal input (N.O.).  On double leaf gate automation systems, by default, the partial opening command opens LEAF 1 completely.  With single leaf swing gate installations, by default, partial opening is 50% of total opening.
32(24V~) 33(COM)	Power feed for external devices 9 W.
34(SC) 35(COM)	Connection for gate open indicator lamp 24 Vdc 3 W (see fig. 2) The function of the indicator lamp is determined by parameter $RB$ .
34(SC) 35(COM)	Photocell test connection (see fig. 8). feed for the photocell transmitters (TX) may be connected to this. Set the parameter RB 02 to enable the test function. Each time a command is received, the control unit switches the photocells off and on to check that the contact changes state correctly.
36(FT2) 33(COM)	Input (N.C.) for connecting photocells <b>FT2</b> (fig. 7).  The photocells <b>FT2</b> are configured by default with the following settings:  - 53 03. During gate opening, the gate stops as long as the photocell is obstructed. The gate resumed opening when the photocell is cleared.  - 54 04. During gate closing, the gate stops if the photocell is obstructed. The gate opens when the photocell is cleared.  - 55 01. The gate opens when an open command is received if photocell <b>FT2</b> is obstructed. If the photocells are not installed, jumper the terminals <b>36(FT2)</b> - <b>33(COM)</b> or set the parameters 53 00 and 54 00.
37(FT1) 33(COM)	Input (N.C.) for connecting photocells <b>FT1</b> (fig. 7).  The photocells <b>FT1</b> are configured by default with the following settings:  - 50 00 . Photocell triggers only during gate closure. Photocell is ignored during gate opening.  - 5 102 . Movement is reversed if the photocell is triggered during gate closure.  - 52 0 1 . The gate opens when an open command is received if photocell <b>FT1</b> is obstructed. If the photocells are not installed, jumper the terminals <b>37(FT1)</b> - <b>33(COM)</b> or set the parameters 50 00 and 5 100.
38(COS2) 40(COM)	Input (NC or 8 kOhm) for connecting sensing edge COS2 (fig. 2). The sensing edge is configured by default with the following settings:  — 74 00. The sensing edge COS2 (NC contact) is disabled. If the sensing edge is not installed, jumper the terminals 38(COS2) - 40(COM) or set the parameter 74 00.
39(COS1) 40(COM)	Input (NC or 8 kOhm) for connecting sensing edge <b>COS1</b> (fig. 2). The sensing edge is configured by default with the following settings:  — 73 03. If the sensing edge <b>COS1</b> (NC contact) is enabled, the gate always reverses.  If the sensing edge is not installed, jumper the terminals <b>39(COS1)</b> - <b>40(COM)</b> or set the parameter 73 00.
41(ST) 40(COM)	STOP command input (NC). The current manoeuvre is arrested if the safety contact opens. <b>N.B.</b> : jumper the contact if it is not used.
46(ES) 47(COM)	Input for connecting electric lock (potential free contact) 230 Vac max 25 W (fig. 3).
RECEIVER CARD	Connector for plug-in radio receiver board.  The control unit has two radio remote control functions by default:  PR1 - step mode command (modifiable with parameter 75).  PR2 - partial opening command (modifiable with parameter 77).

## 13 Example installation with two opposing automation systems



Two opposing sliding gate automation system may be connected to a single H70/200AC control unit.

Connect automation system **A** to terminals **AP1-CM-CH1** and connect automation system **B** to terminals **AP2-CM-CH2**.



## 14 Safety input and command status (TEST mode)

With no currently active commands, press the TEST button and check the following:

The safety STOP contact is open.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact.  Install a STOP button (NC) or jumper the ST contact with the COM contact COM, if not used or to disable.  Install a STOP button (NC) or jumper the ST contact with the COM contact COM, if not used or to disable.  Install a STOP button (NC) or jumper the ST contact with the COM contact COM, if not used or to disable.  Install a STOP button (NC) or jumper the ST contact with the COM contact COM, if not used or to disable.  Install a STOP button (NC) or jumper the ST contact with the COM contact COM, if not used or to disable.  Install a STOP button (NC) or jumper the ST contact COM, if not used or to disable.  Install a STOP button (NC) or jumper the STO contact with curve used or to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a STOP button (NC) or jumper to disable.  Install a ST	DISPLAY	POSSIBLE CAUSE	ACTION BY SOFTWARE	PHYSICAL CORRECTIVE ACTION
Sensing edge COS1 not connected or incorrectly connected.  Set the parameter 73 00 if not used or to disable.  Sensing edge COS2 not connected or incorrectly connected.  Set the parameter 74 00 if not used or to disable.  Sensing edge COS2 not connected or incorrectly connected.  Photocell FT1 not connected or incorrectly connected.  Photocell FT2 not connected or incorrectly connected.  Set the parameter 50 00 e 51 00 Jumper contact COS2 with contact COM, if not used or to disable.  Photocell FT2 not connected or incorrectly connected.  Set the parameter 50 00 e 51 00 Jumper contact FT2 with contact COM, if not used or to disable. Check connection referring to relative connection diagram (figure 7).  Set the parameter 53 00 e 51 00 Jumper contact FT2 with contact COM, if not used or to disable. Check connection referring to relative connected.  At least 3 limit switches in open contact state or not connected.  Both gate leaves at closed limit switch.  Open limit switch not connected.  Both gate leaves at closed limit switch.  Closed limit switch not connected or incorrectly connected.  Check connection of limit switches.  Check COM contacts and connections to buttons.  Check PP - COM contacts and connections to	DISPLAI		ACTION DI SOITWAIL	
Sensing edge COS2 not connected or incorrectly connected.  Set the parameter 74 00 if not used or to disable.  Set the parameter 75 00 e 5 i 00 incorrectly connected.  Set the parameter 50 00 e 5 i 00 jumper contact COS2 with contact COM, if not used or to disable.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection disparal figure 7).  Set the parameter 53 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection disparal figure 7 is not used or to disable. The connection of limit swith contact state or not connected.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection of limit switch used or to disable.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection of limit switch used or to disable. The connection of limit switch used or to disable. The connection of limit switch used or to disable. The connection of limit switch used or to disable. The connection of limit switch used or to disable. The connection of limit switches.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection of limit switches.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection of limit switches.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The connection of limit switches.  Set the parameter 50 00 e 5 i 00 jumper contact FTI with contact COM, if not used or to disable. The contact FTI with contact COM, if not used or to disable. The contact FTI with contact COM, if not used or to disable. The contact FTI with contact COM, if not used or to disable. The contact FTI wit	8841	The salety STOP contact is open.	+	tact with the <b>COM</b> contact.
Photocell FT1 not connected or incorrectly connected.  B 3 Photocell FT2 not connected or incorrectly connected.  B 4 least 3 limit switches in open contact state or not connected.  B 5 FE At least 3 limit switches in open contact state or not connected.  B 6 FE At least 3 limit switches in open contact state or not connected.  B 6 FE At least 3 limit switch not connected.  B 7 Check connection of limit switches.  Check connection of l	88 39			
Photocell FT2 not connected or incorrectly connected.  BB 36  Photocell FT2 not connected or incorrectly connected.  BB FE  At least 3 limit switches in open contact state or not connected.  Both gate leaves at open limit switch.  Open limit switch not connected.  Both gate leaves at closed limit switch.  Closed limit switch not connected or incorrectly connected or incorrectly connected or incorrectly connected.  BF I LEAF 1 limit switches not connected or incorrectly connected.  BE FI LEAF 1 limit switches not connected or incorrectly connected.  Check connection of limit switches.  Check conne	88 <b>38</b>	Sensing edge <b>COS2</b> not connected or incorrectly connected.	Set the parameter 74 00 if not used or to disable.	Jumper contact <b>COS2</b> with contact <b>COM</b> , if not used or to disable.
rectly connected.  At least 3 limit switches in open contact state or not connected.  Both gate leaves at open limit switch.  Open limit switch not connected.  Both gate leaves at closed limit switch.  Closed limit switch not connected.  Check connection of limit switches.  Check Connection of limit switch	88 <b>37</b>			or to disable. Check connection referring to rela-
tact state or not connected.  Both gate leaves at open limit switch.  Open limit switch not connected.  Both gate leaves at closed limit switch.  Closed limit switch not connected.  Check connection of limit switches.  Check connecti	88 <b>36</b>		Set the parameter 53 00 e 54 00 if not used or to disable.	or to disable. Check connection referring to rela-
Open limit switch not connected.  Both gate leaves at closed limit switch.  Closed limit switch not connected.  Check connection of limit switches.  Closed limit switch not connected.  Check connection of limit switches.  Check conne	88 FE	At least 3 limit switches in open contact state or not connected.	-	Check connection of limit switches.
Both gate leaves at closed limit switch.  Closed limit switch not connected.  EAF 1 limit switches not connected or incorrectly connected.  LEAF 2 limit switches not connected or incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  LEAF 1 is open.  LEAF 1 is open.  LEAF 1 closed limit switch not connected or incorrectly connected.  Or LEAF 1 is open.  LEAF 2 limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  LEAF 2 losed limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  LEAF 2 closed limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  LEAF 2 closed limit switch not connected.  Or LEAF 2 is open.  LEAF 2 closed limit switch not connected.  Or LEAF 2 is open.  Check connection of limit switches.  Check connection of limit switches.  Check connection of limit switches.  Check Check connection of limit switches.  Check Check connection of limit switches.  Check Ch	88 FA	Both gate leaves at open limit switch.	-	-
switch. Closed limit switch not connected.  LEAF 1 limit switches not connected or incorrectly connected.  LEAF 2 limit switches not connected or incorrectly connected.  LEAF 2 limit switches not connected or incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  LEAF 1 is open.  LEAF 1 is open.  LEAF 1 closed limit switch not connected or incorrectly connected.  Or LEAF 1 is closed.  LEAF 2 open limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  LEAF 2 open limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  LEAF 2 closed limit switch not connected.  Or LEAF 2 is open.  LEAF 2 closed limit switch not connected.  Or LEAF 2 is closed.  LEAF 2 closed limit switch not connected.  Or LEAF 2 is closed.  Check connection of limit switches.  Check co		Open limit switch not connected.	-	Check connection of limit switches.
Check connection of limit switches.  LEAF 2 limit switches not connected or incorrectly connected.  LEAF 2 limit switches not connected or incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  LEAF 1 is open.  LEAF 1 is open.  LEAF 2 losed limit switch not connected or incorrectly connected.  Or LEAF 1 is closed.  LEAF 2 open limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  LEAF 2 open limit switch not connected or incorrectly connected.  Or LEAF 2 is open.  Check connection of limit switches.  Check CP - COM contacts and connections to buttons.  Check CP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check PED - COM contacts and connections to buttons.  Check ORO - COM contacts. Contact must not be buttons.	88 FC		-	_
LEAF 2 limit switches not connected or incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  Check connection of limit switches.  Check connection of limit swit		Closed limit switch not connected.	-	Check connection of limit switches.
incorrectly connected.  LEAF 1 open limit switch not connected or incorrectly connected.  Check connection of limit switches.  Check Check connection of limit switches.  Check Check connection of limit switches.  Check Che	88 F I	LEAF 1 limit switches not connected or incorrectly connected.	-	Check connection of limit switches.
nected or incorrectly connected. Or LEAF 1 is open.  Check connection of limit switches.  Check C	88 F2		-	Check connection of limit switches.
nected or incorrectly connected. Or LEAF 1 is closed.  LEAF 2 open limit switch not connected or incorrectly connected. Or LEAF 2 is open.  LEAF 2 closed limit switch not connected. Or LEAF 2 is closed.  LEAF 2 closed limit switch not connected. Or LEAF 2 is closed.  If occurs with no voluntary command, the contact (N.O.) may be faulty or one of the buttons may be incorrectly connected.  PP 00  LEAF 2 closed limit switch not connection of limit switches.  Check connection of limit switches.  Check connection of limit switches.  Check CPP - COM contacts and connections to buttons.  Check CH - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check PED - COM contacts and connections to buttons.  Check ORO - COM contacts. Contact must not be buttons.	88 20	nected or incorrectly connected.	-	Check connection of limit switches.
nected or incorrectly connected. Or LEAF 2 is open.  Check connection of limit switches.  Check connection of limit switches.  Check PP - COM contacts and connections to buttons.  Check CH - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check ORO - COM contacts and connections to buttons.  Check ORO - COM contacts. Contact must not be jumpered if not used.	8821	nected or incorrectly connected.	-	Check connection of limit switches.
nected. Or LEAF 2 is closed.  PP 00 If occurs with no voluntary command, the contact (N.O.) may be faulty or one of the buttons may be incorrectly connected.  Check PP - COM contacts and connections to buttons.  Check CH - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check PED - COM contacts and connections to buttons.  Check PED - COM contacts and connections to buttons.  Check ORO - COM contacts and connections to buttons.  Check ORO - COM contacts and connections to buttons.	88 22	nected or incorrectly connected.	-	Check connection of limit switches.
the contact (N.O.) may be faulty or one of the buttons may be incorrectly connected.  Check CH - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check AP - COM contacts and connections to buttons.  Check PED - COM contacts and connections to buttons.  Check PED - COM contacts and connections to buttons.  Check ORO - COM contacts. Contact must not be jumpered if not used.	88 23	nected.	-	Check connection of limit switches.
De Company of the contact (N.O.) may be faulty or the source of the contact (N.O.) may be faulty or the source of the contact	PP 00	· ·	-	Check $\ensuremath{\mathbf{PP}}$ - $\ensuremath{\mathbf{COM}}$ contacts and connections to buttons.
buttons.  Check PED - COM contacts and connections to buttons.  If occurs with no voluntary command, the contact (N.O.) may be faulty or the	CH 00		-	Check <b>CH</b> - <b>COM</b> contacts and connections to buttons.
buttons.  If occurs with no voluntary command, the contact (N.O.) may be faulty or the  buttons.  Check ORO - COM contacts. Contact must not be jumpered if not used.	AP 00		-	Check <b>AP</b> - <b>COM</b> contacts and connections to buttons.
the contact (N.O.) may be faulty or the jumpered if not used.	PE 00		-	Check <b>PED</b> - <b>COM</b> contacts and connections to buttons.
	<b>0</b> -00	the contact (N.O.) may be faulty or the		Check <b>ORO</b> - <b>COM</b> contacts. Contact must not be jumpered if not used.

#### N.B.: Press TEST button to exit from the TEST Mode.

We recommend troubleshooting safety device and input status errors with "corrective action by software" only.

## 15 Alarms and faults

PROBLEM	ALARM	POSSIBLE CAUSE	ACTION
The gate does not open or close.	POWER LED off	No power.	Check power cable.
	POWER LED off	Fuses blown.	Replace fuse. Always disconnect from mains power before removing fuses.
	Example: 15 EE 2 1 EE	Configuration parameter error.	Set configuration value correctly and save.
	24 AC flashing	Fuse F2 disconnected or damaged. Accessories are not powered.	Refit fuse F2 correctly or replace.
Acquisition procedure does not complete correctly.	AP PE	TEST button pressed accidentally.	Repeat acquisition procedure.
		Safety devices in alarm state.	Press the TEST button and check the safety device/s in alarm state and the connections of the safety devices.
Remote control has limited range and does not work while automated gate is moving.	-	The radio transmission is impeded by metal structures and reinforced concrete walls.	Install the antenna outside.
	-	Flat batteries.	Replace the transmitter batteries.
The flashing light is not working.	-	Bulb / LED blown or flashing light wires disconnected.	Check LED circuit and/or connector wires.
Gate open indicator lamp does not work.	-	Bulb blown or wires disconnected.	Check the bulb and/or wires.
Gate does not perform desired manoeuvre.	-	Motor leads crossed.	Swap two wires on terminal X-Y-Z or Z-Y-X.

N.B.: Press the TEST button to temporarily cancel the alarm.

The next time a command is received, the alarm reappears on the display if the problem has not been resolved.

### 16 Mechanical release

In the event of power failure, the gate may be unlocked by following the instructions given in the use and maintenance manual of the automation system. On receiving the first command signal after mains power is restored, the control unit starts an opening manoeuvre in position recovery mode (see chapter 17).

Position recovery is performed immediately when the limit switches (if installed) are activated.

## 17 Position recovery mode

When it receives the first command signal after a power failure, after unlocking the motor or after an obstacle is detected in the same position three consecutive times (with encoders enabled), the control unit starts a manoeuvre in position recovery mode.

If encoder is installed the manoeuvre in position recovery mode happens at low speed; otherwise the manoeuvre happens at normal speed. The flashing light flashes with a different duty cycle than normal (3 s on, 1.5 s off).

The control unit recovers the installation data during this procedure.

Warning! Do not use any controls until the gate has completed the opening and closing manoeuvre.

Position recovery is performed immediately when the limit switches (if installed) are activated.

## 18 Initial testing

- Turn on the power supply.
- · Check that all connected controls are working correctly.
- Check travel and deceleration.
- Check that the impact force is correct, in compliance with EN 12453 and EN12445.
- Check that the safety devices are activated correctly
- Disconnect from mains power then reconnect. Check that the position recovery procedure is completed correctly.
- Check the limit switch settings (if installed).
- · Check that the release system works correctly.