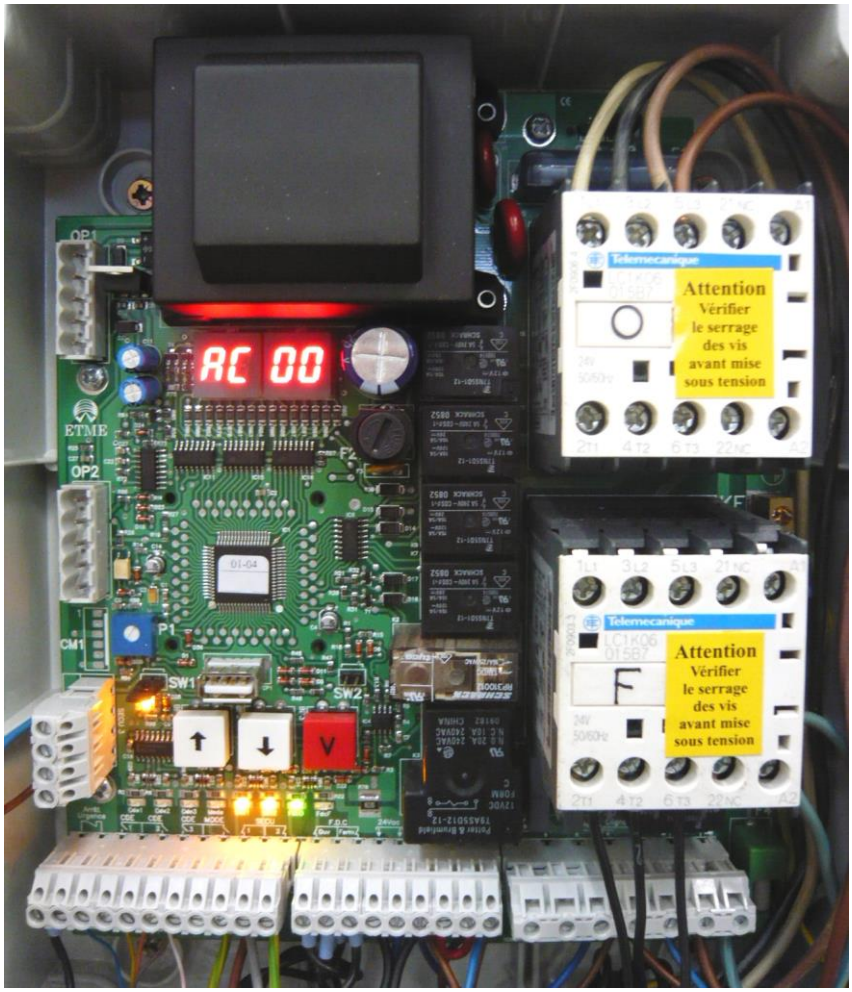
Manual
No. 7157

09/25

INSTALLATION and CONNECTION

Indus SACL operator (230/400V) with PIC 4410 box

Industry Sectional doors



(Document reserved for installers)

Contents

Installation instructions

CAUTION !

To reduce risks, carefully read the following instructions before proceeding with the installation.
Pay close attention to all signs shown in the text.
Failure to follow to the letter all the instructions in this manual,
may interfere with the proper operation of the system, place the user in danger
and in all cases invalidate the product warranty.

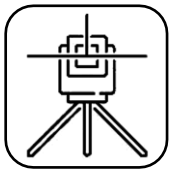
- The device described in this booklet must be used only for the purpose for which it was expressly designed, i.e. Control system for automatic door (as defined in standard BS EN 13241 : 2003 + A2 : 2016).
- The entire installation must be carried out in accordance with good professional practice and in particular comply with the following directives :
  - Electromagnetic Directive 89/336/CEE
  - Low voltage Directive 73/23/CEE
  - Machinery Directive 98/37/CEE

  and the applicable sections of the corresponding standards in force, including NFC15-100, mainly with respect to connection, insulation conditions and protection of people and equipment.
- All connection operations (wiring, installation of options, etc.) must be carried out by authorized personnel with the power switched off.
- The entire installation must be maintained and kept in good working order.
- The materials used must be adapted to the atmospheric conditions of the site of installation.
- If you have any doubts about the safety and/or reliability of the installation, stop installing the product and contact us.
- Switch the device off before proceeding with any cleaning or maintenance operations.
- In the event of a fault or malfunction, switch the device off immediately and contact technical support. Any repairs must be carried out by specialized personnel, using only original, certified spare parts.
- The manufacturer has no experience of incorrect use of the products or use of the products for purposes other than those intented and/or recommended. Therefore, work carried out is the sole responsibility of the installer.

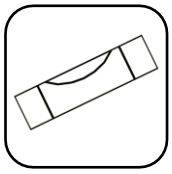
  We accept no liability for :
  - Electrical installation that does not comply with current standards, particularly in the case of ineffective circuit protection (earthing).
  - Inappropriate adjustment by the customer, which may place the user in danger or destroy the equipment.
- The installer must ensure the installation functions correctly before use, in particular all the safety functions.
- Keep this manual for future reference.

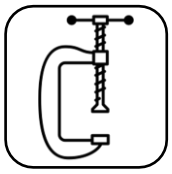
Before installation

Required equipment

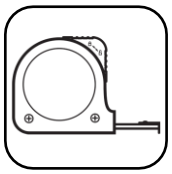

Laser level

or


Spirit level

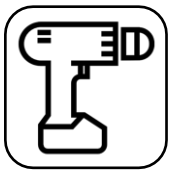

Clamps


Plumb bob


Tape measure


Pencil


Ladder


Electric screwdriver


Perforator


Steel drill Ø4.2 length max.30 mm


Steel drill Ø5.5-6.5-10-11

Hexagonal bit

Pipe wrenches

Flat wrenches

Allen key


Electrician's screwdriver


Electrician's screwdriver


Grinder


Locking pliers


Hacksaw


Hammer

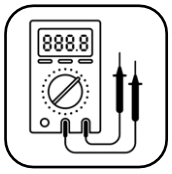

Oil can


Brush

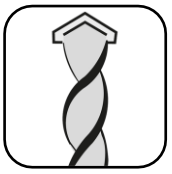
Pot of grease


Cord

Wood shims



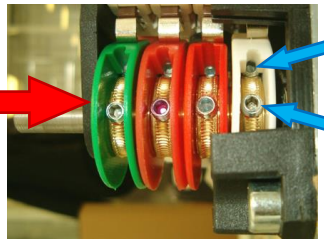
Multimeter


Concrete drills

Dowels with Ø6 maxi screws

Assembling the operator

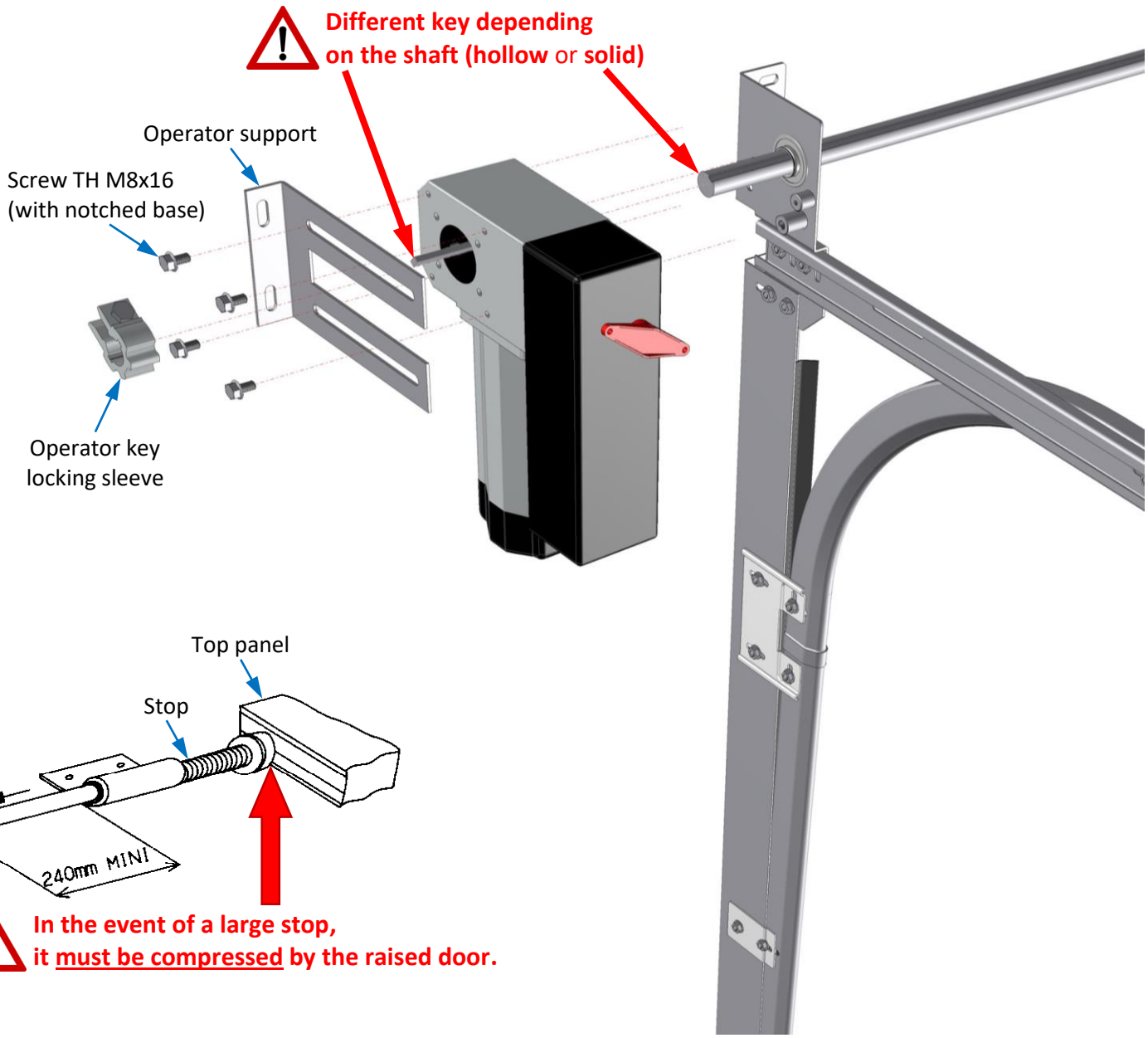
Before installing the operator on the shaft, check the positions of the adjustment screws and cam locking screws to ensure they can be accessed with the wrench for adjustment.

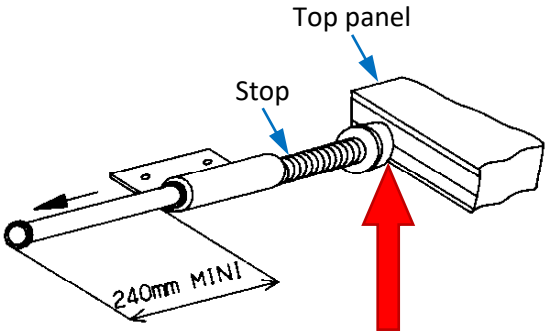


IMPORTANT !

If hollow shaft : 9.5 x 6.3 mm key, length 75 mm
(KIT no. 243 in the accessory pack).

If solid shaft : 6.3 x 6.3 mm key with grub screw, length 105 mm
(Bag in the operator pack).

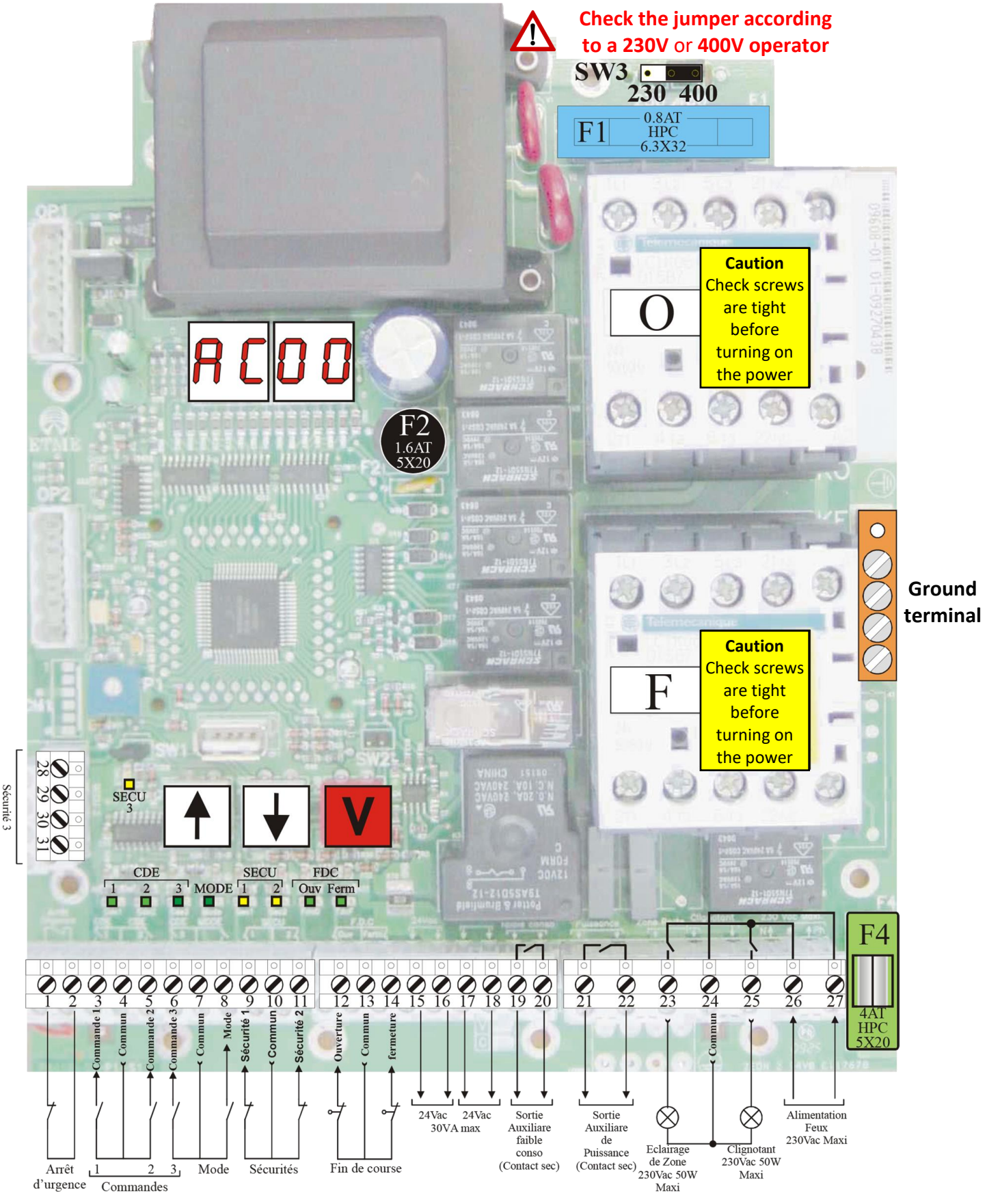




In the event of a large stop, it must be compressed by the raised door.

4410 board layout

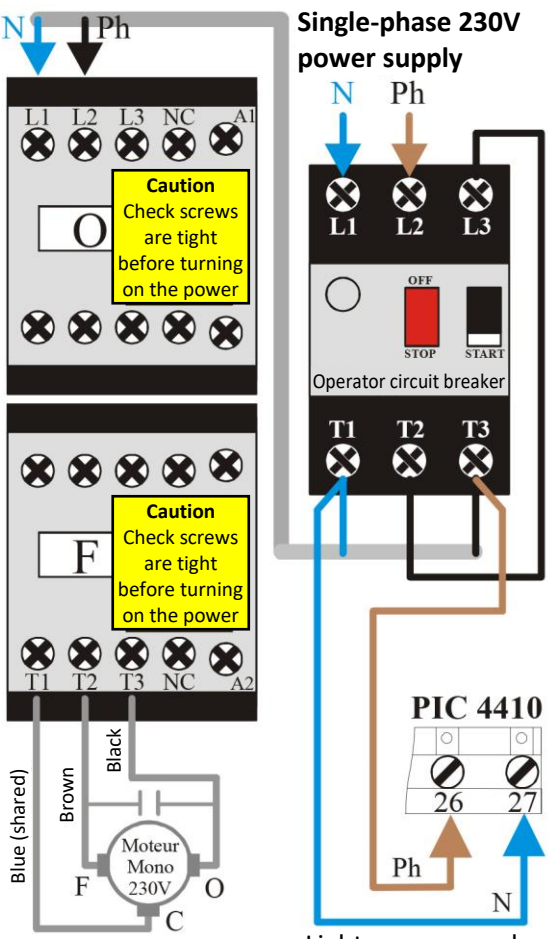
Protect the supply line with a suitable differential circuit breaker positioned upstream and thermal protection.



Board power supply

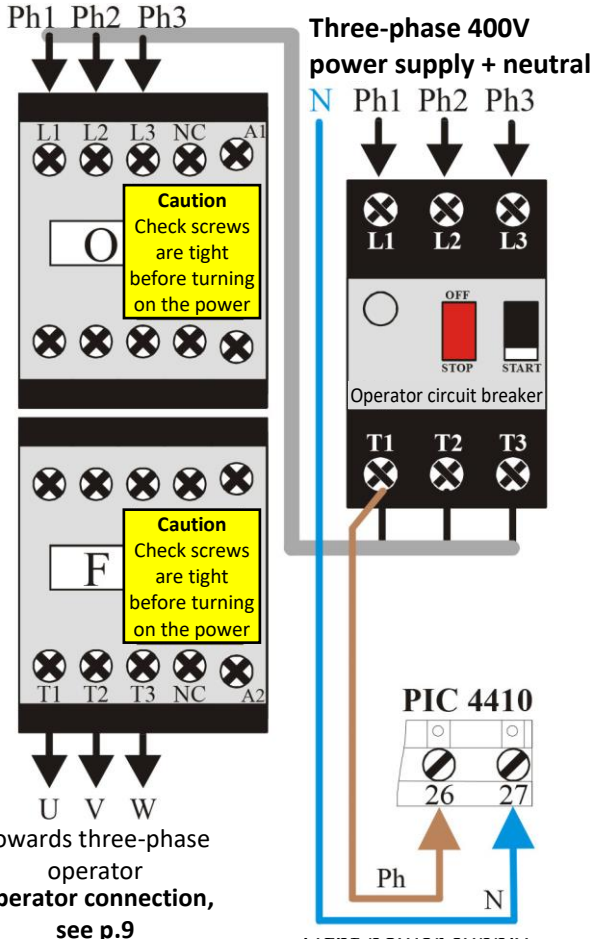
Circuit breaker not supplied

Single-phase 230V operator



Light power supply 230V max.

Three-phase 400V operator



Towards three-phase operator

Operator connection, see p.9

Light power supply 230V max.

Button functions

Use the ↑ and ↓ push buttons to navigate within the menu and change the value of a setting.

Use the V push button to enter a menu and confirm the value of a setting.

Note : During an operating cycle : display 1, show the phases of operation.
display 2, indicates a possible default.

Default settings table
(standard factory settings)

		Factory values	
F0	**CHOICE OF SCENARIO**	00	
AP	**SELF-LEARNING MENU**		

d0	**GENERIC SETTINGS MENU**		
d1	Operating mode 1	04	Dead man
d2	Advance warning	ON	With advance warning
d3	ADMAP	ON	With ADMAP
d5	Clock function	OF	Without clock
d6	Activation of locking errors	OF	No
d7	Self-test position		
d8	Braking mode	00	Type 1 brake
d9	Operating mode 2	04	Dead man

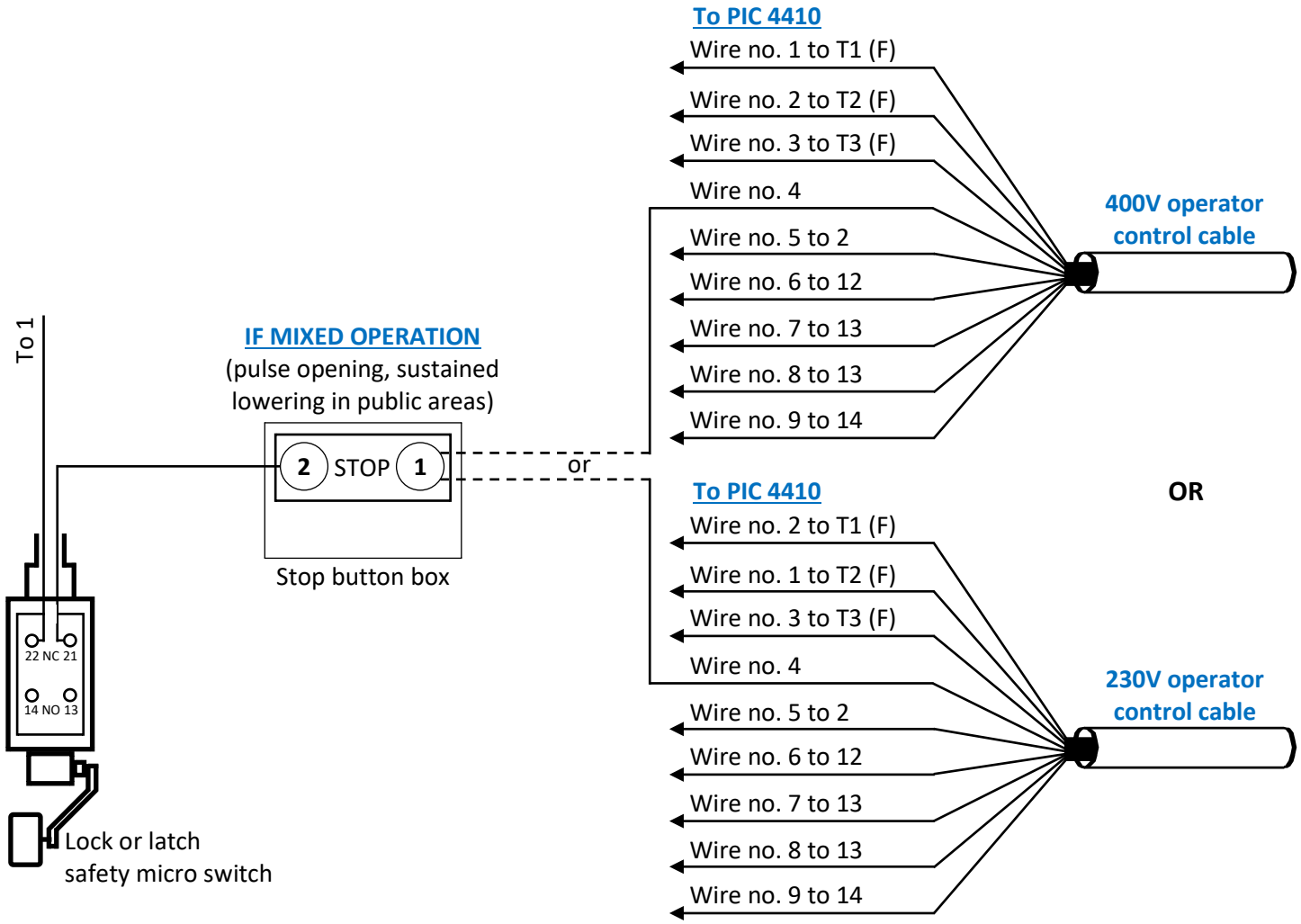
E0	**INPUT MENU**		
E1	Safety input 1 (terminals 9 and 10)	00	Internal low cells deactivated
E2	Safety input 2 (terminals 10 and 11)	00	External low cells deactivated
E3	Safety input 3 (terminals 28 to 31)	04	Safety edge with self-test
E5	Factoring in of operator EOT	00	No end of travel
E6	Auxiliary input 1 (with PIC 40 board)	00	Deactivated
E7	Auxiliary input 2 (with PIC 40 board)	00	Deactivated

J0	**OUTPUT MENU**		
J1	Power auxiliary output (21 and 22)	00	Strike plate
J2	Low consumption auxiliary output 1 (19 and 20) NO	03	Self-test output
J3	Low consumption auxiliary output 2 (1 and 3) NO	01	Timer
J4	Low consumption auxiliary output 3 (4 and 5) NO	02	Door status
J5	Low consumption auxiliary output 4 (6 and 7) SW1/PIC 40	03	Self-test output
J6	Area lighting pending closure		
J9	Flashing speed	00	Normal speed

T0	**TIME DELAY MENU**		
t1	Operator running time	20	0 to 4 minutes
tA	Closure waiting time		
tP	Partial opening time	5	1 to t1
tL	Safety reinversion time	0	

T1 and **tA :** Parameters set during self-learning.

Connecting the operator to the PIC 4410 box



Configuring the PIC 4410 box
before end of travel adjustment

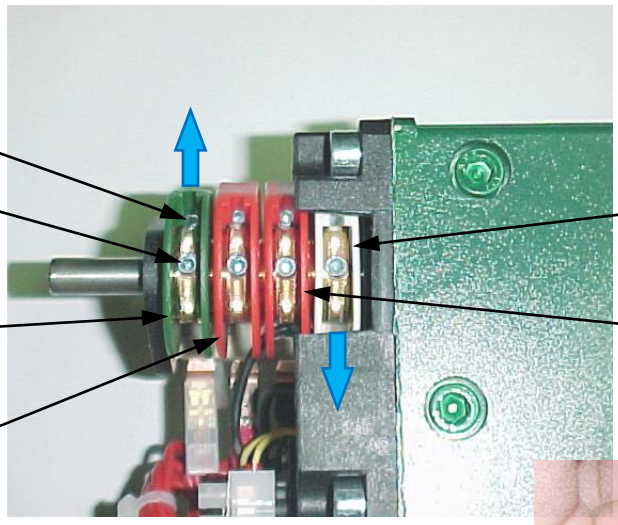
1. Settings :

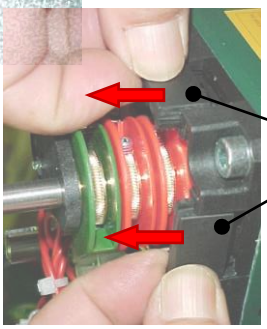
E3	Safety input 3 (terminals 28 to 31)	00	Deactivated
E5	With end of travel	01	Activated

2. Connect a push button :
Opening = Terminals 4 and 5.
Lowering = Terminals 6 and 7.

Check the direction of rotation : for a three-phase 400V operator.
The push button connected to terminals 4 and 5 must engage opening.
If not, switch the power supply off and swap Ph1 and Ph2 on the PIC 4410 box.

End Of Travel (EOT) adjustment





Procedure : Remove both protections and loosen the cam locking screws.

Upper End Of Travel (EOT) :

1. Move the door to the desired upper position.
2. Push the **upper End Of Travel (EOT) white cam** until the contactor clicks (the cam must reach the contactor "from below"). **See diagram no. 1, opposite.**
   Note : you should hear a click and the "EOT O" opening end of travel LED on the PIC 4410 box should go out).
3. Tighten the locking screw slightly.
4. Push the **upper safety red cam** in the same way until it clicks, then move it backwards until you hear it click again (free contact).
5. Tighten the locking screw slightly.

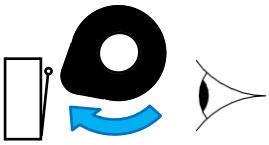


Diagram no. 1

Lower End Of Travel (EOT) :

1. Move the door to the desired lower position.
2. Push the **lower End Of Travel (EOT) green cam** until the contactor clicks (the cam must reach the contactor "from above"). **See diagram no. 2, opposite.**
   Note : you should hear a click and the "EOT F" closure end of travel LED on the PIC 4410 box should go out).
3. Tighten the locking screw slightly.
4. Push the **lower safety red cam** in the same way until it clicks, then move it backwards until you hear it click again (free contact).
5. Tighten the locking screw slightly.

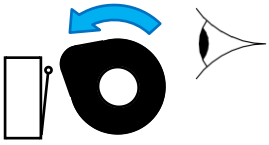


Diagram no. 2

Final adjustment :

1. Operate the door and fine-tune the settings if necessary, by tightening or loosening the end adjustment screw.
2. **Securely tighten the locking screws.**

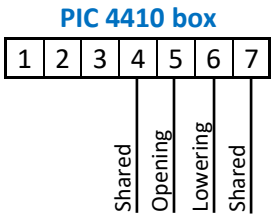
Choosing the operating mode
(out light curtain)

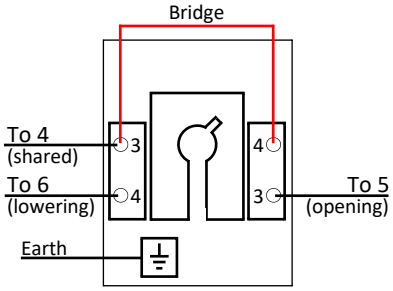
You should install fixed controllers within view of the door, but away from any moving parts and at a height of at least 1.5 m from the floor.

Each switch must control only one operator. It is strictly prohibited to control several operators with just one single-pole type reverser.

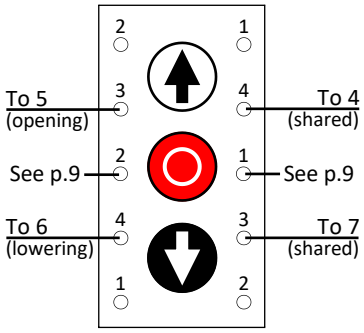
Mixed operation
(Pulse opening - Sustained lowering)

1. Control connections on the PIC 4410 box :





Wall-mounted/built-in key switch box (BCA/BCE)
with stop button box (see p.9)



Wall-mounted box with 3 buttons (BBA3)

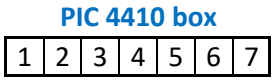
2. Mixed operation settings :

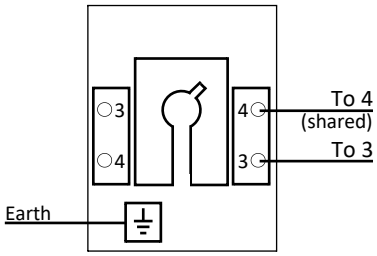
d1	Operating mode 1	06	Mixed operation

3. Self-learning :
- Start the self-learning procedure (see chapter : Starting self-learning).

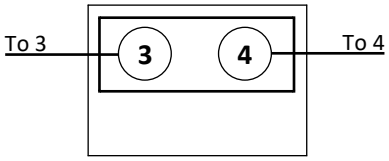
Pulse operation
(Pulse opening/lowering)

1. Control connections on the PIC 4410 box :





Wall-mounted/built-in key switch box (BCA/BCE)



Wall-mounted box with button (BBA)

Note : if using a remote control, refer to the receiver box manual.

2. Pulse operation settings :

d1	Operating mode 1	03	Pulse operation - Step by step

E1	Safety input 1 (terminals 9 and 10)	04	Internal low cells with self-test *

E2	Safety input 2 (terminals 10 and 11)	04	External low cells with self-test *
E3	Safety input 3 (terminals 28 and 31)	04	Safety edge with self-test
tL	Safety reinversion time	0.5	

***Note :** if the installation requires no cells, leave **E1 = 00** and **E2 = 00**.

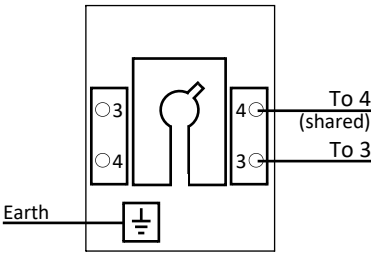
3. Self-learning :
- Start the self-learning procedure (see chapter : Starting self-learning).

Automatic operation
(Pulse opening and automatic reclosing)

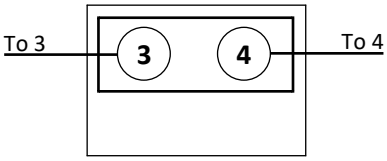
1. Control connections on the PIC 4410 box :

PIC 4410 box

1	2	3	4	5	6	7



Wall-mounted/built-in key switch box (BCA/BCE)



Wall-mounted box with button (BBA)

Note : if using a remote control, refer to the receiver box manual.

2. Automatic operation settings :

d1	Operating mode 1	00	Automatic operation

E1	Safety input 1 (terminals 9 and 10)	04	Internal low cells with self-test **
E2	Safety input 2 (terminals 10 and 11)	04	External low cells with self-test **
E3	Safety input 3 (terminals 28 and 31)	04	Safety edge with self-test **
tL	Safety reinversion time	0.5	

Timed reclosure is equivalent to the automatic operating mode
(not activated manually by the user) (refer to BS EN 13241 : 2003 + A2 : 2016)

**** Ensure that the mandatory protection levels for the automatic operating mode are met**

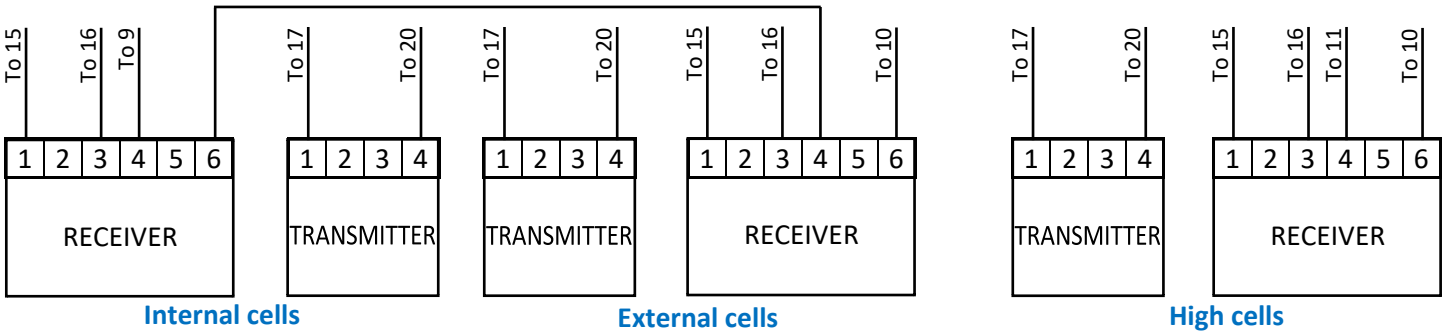
3. Self-learning :
- Start the self-learning procedure (see chapter : Starting self-learning).

Safety connections with self-test

There must be a bridge between 18 and 19

Low cells

If high cells

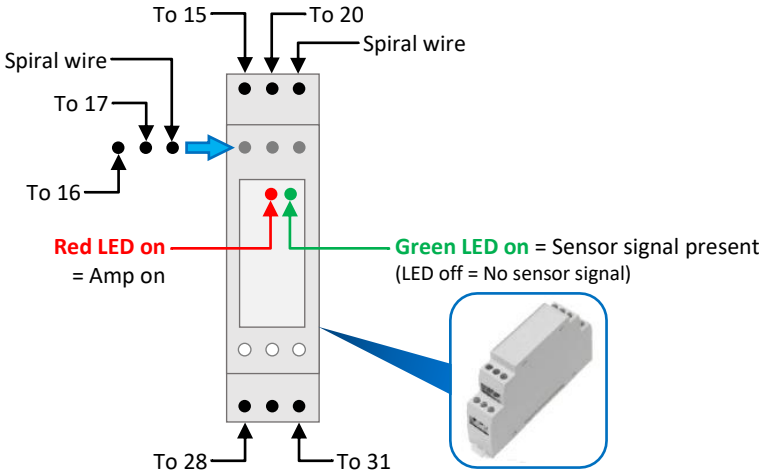


High cells settings :

E2	Safety input 2 (terminals 10 and 11)	02	High cells with self-test

Resistive safety edge

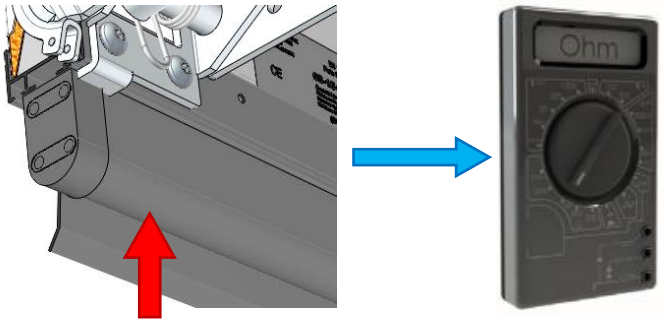
1. **Wiring to the PIC 4410 box :**



2. **Safety edge settings :**

E3	Safety input 3 (terminals 28 and 31)	04	Safety edge with self-test
J2	Low consumption auxiliary output 1 (19 and 20) NO	03	Self-test output

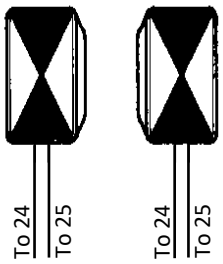
3. Measure the value :



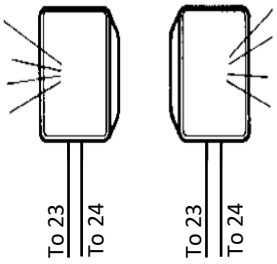
= 8.2kΩ ± 500Ω

OPTIONS : flashing orange lights / illumination lights

Flashing orange lights
220V - Max. 2x15W

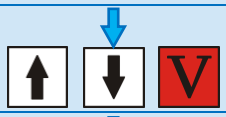
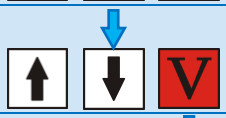
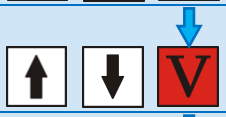
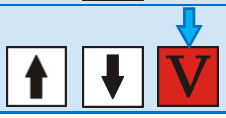


Illumination lights
220V - Max. 2x100W



Starting self-learning

Before starting self-learning, the installation must be complete :
door in lowered position, operator and control connected, safety devices wired and End Of Travel (EOT) set.

Description	Action	Display after action
Card waiting for order, without default and operator off		Fixed AC Waiting order / 00 No default
Enter the programming menu		Fixed F0 00 Scenario configured
Reach the self-learning (AP) menu		Fixed AP Menu / En
Enter the self-learning menu		Fixed AP Menu / C Type
Check that the self-learning type displayed is C : with final End Of Travel (EOT) and that it corresponds well to your installation		At Cd

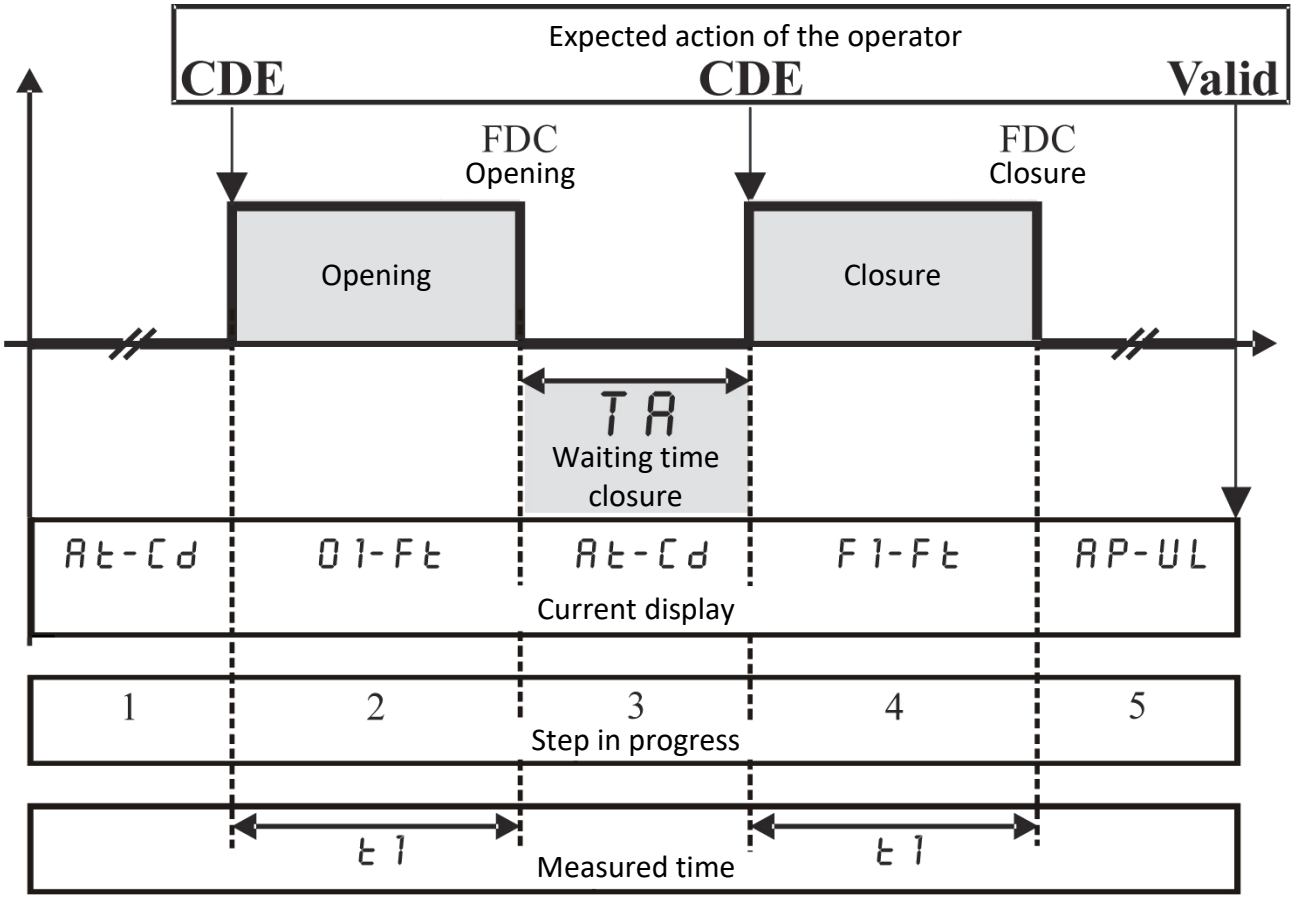
Self-learning procedure (with EOT : End Of Travel)

In the course of the various stages, the operator will need to send a "CDE" command to the board at very precise times.
This "CDE" action will involve either :
- Creating a contact on the CDE1 input (terminals 3 and 4).
- Pressing the ↑ or ↓ push button.

The TA closure waiting time will be measured and factored in, only if the automatic mode has been programmed.

C : Type of self-learning (with EOT : End Of Travel)

Normal cycle : The opening and closure phases end when the corresponding Ends Of Travel (EOTs) are actuated.



If self-learning fails, the display will show EPUL, in this case start self-learning again from the beginning.

Successful self-learning will end with :

APUL, press V to record the values.

Launch an operating cycle (one opening and one closure)
and check that the safety devices are working properly.

Note : to change other parameters, see chapter : Programming menu layout, next page.

Programming menu layout

F0 CHOICE OF SCENARIO

00	Sliding scenario without slowdown - SC
01	Scenario Sectional Door - SPS
02	Customer scenario : Specific scenario following your request (minimum quantity needed per delivery. Please contact your sales representative).

AP SELF-LEARNING MENU

x	X=C.E Type of self-learning cycle. If one of the self-learning cycles is launched, the configuration stops here and the card is ready to work

d0 GENERIC SETTINGS MENU

Parameter		Possible value		Scenario SC	Scenario SPS
d1	Operating mode 1	00	Automatic		
		01	Manual 1bp	x	x
		02	Blocking		
		03	Step by step		
		04	Dead man		
		05	Memorized opening		
		06	Manual 2 bp		
d2	Advance warning	0n	With	x	
		0F	Without		x
d3	ADMAP	0n	With	x	x
		0F	Without		
d5	Clock function	0n	With		
		0F	Without	x	x
d6	Activation of locking errors	0n	Yes		
		0F	No	x	x
d7	Self-test position	00	Start of opening and closing		
		01	End closure		
d8	Braking mode	00	Type 1 brake	x	x
		01	Type 2 brake		
		02	Type 3 brake		
		03	Type 4 brake		
d9	Operating mode 2	00	Automatic		
		01	Manual 1bp		
		02	Blocking		
		03	Step by step		
		04	Dead man	x	x
		05	Memorized opening		
		06	Manual 2 bp		

E0 INPUT MENU

Parameter		Possible value		Scenario SC	Scenario SPS
E1	Safety input 1 (terminals 9 and 10)	00	Deactivated		
		01	Safety opening without SELF-TEST	x	x
		02	Safety opening with SELF-TEST		
		03	Safety closure without SELF-TEST		
		04	Safety closure with SELF-TEST		
E2	Safety input 2 (terminals 10 and 11)	00	Deactivated		
		01	Safety opening without SELF-TEST		
		02	Safety opening with SELF-TEST		
		03	Safety closure without SELF-TEST	x	x
		04	Safety closure with SELF-TEST		
E3	Safety input 3 (terminals 28 to 31)	00	Deactivated		
		01	Safety opening without SELF-TEST		
		02	Safety opening with SELF-TEST		
		03	Safety closure without SELF-TEST	x	x
		04	Safety closure with SELF-TEST		
E5	Factoring in of operator EOT	00	No end of travel		
		01	Final Ends Of Travel	x	x
E6	Auxiliary input 1 (terminals 9 and 10 of the board option E/S : PIC 40)	00	Deactivated	x	x
		01	Image lock		
		02	Input sas/wicket door		
E7	Auxiliary input 2 (terminals 9 and 10 of the board option E/S : PIC 40)	00	Deactivated	x	x
		01	Image lock		
		02	Input sas/wicket door		

J0 OUTPUT MENU

Parameter		Possible value		Scenario SC	Scenario SPS
J1	Power auxiliary output (terminals 21 and 22 of the motherboard)	00	Strike plate	x	x
		01	Suction cup		
		02	Lock type 1 NO		
		03	Lock type 1 NC		
		04	Lock type 2 NO		
		05	Lock type 2 NC		
		06	Contact brake NO		
		07	Contact brake NC		
J2	Low consumption auxiliary output 1 (terminals 19 and 20 of the motherboard) Contact No	00	Alarm	x	x
		01	Timer		
		02	Door state		
		03	Self-test output		
		04	Banking SAS output		
		05	Buzzer output		
J3	Low consumption auxiliary output 2 (terminals 1 and 3 of the board option E/S : PIC 40) Contact No	00	Alarm		
		01	Timer	x	x
		02	Door state		
		03	Self-test output		
		04	Banking SAS output		
		05	Buzzer output		
		06	Management Lights — ⋈		
J4	Low consumption auxiliary output 3 (terminals 4 and 5 of the board option E/S : PIC 40) Contact No	00	Alarm		
		01	Timer		
		02	Door state	x	x
		03	Self-test output		
		04	Banking SAS output		
		05	Buzzer output		
J5	Low consumption auxiliary output 4 (terminals 6 and 7 of the board option E/S : PIC 40) Contact No or Nc following the position of SW1 from PIC 40	00	Alarm		
		01	Timer		
		02	Door state		
		03	Self-test output	x	x
		04	Banking SAS output		
		05	Buzzer output		
J6	Area lighting pending closure	0n	Active		
		0F	Inactive		
J9	Flashing Speed	00	Normal speed	x	x
		01	Fast speed		

t0 TIME DELAY MENU

Parameter		Possible value	Scenario SC	Scenario SPS
t1	Operator running time	00 s to 4.0 min	30	20
tA	Closure waiting time	00 s to 4.0 min		
tP	Partial opening time	01 to t1	05	05
tL	Safety reinversion time	00 to 1.5 s	1.0	1.0

Parameters set by self-learning

CP DISPLAY MENU COUNTER AND DEFAULTS

Parameter		Possible value
C	Display of the cycle counter (hundreds of a thousand, tens of a thousand and thousands)	000 to 999
c	Display of the cycle counter (hundreds, tens and units)	000 to 999
P0	Display of the last memorized default	00 to 99
P1	Display of the penultimate default	00 to 99
P2	⋮	00 to 99
P3	⋮	00 to 99
P4	⋮	00 to 99
P5	⋮	00 to 99
P6	⋮	00 to 99
P7	⋮	00 to 99
P8	▼	00 to 99
P9	Display of the oldest default	00 to 99
PE	Reset the default list	0n : yes or 0F : no

DEFAULT MANAGEMENT

Designation Default	Display code	Memorization code	Blocking default
No default	00	00	no
Permanent order	10	Neither	no
Order opening during closure	11	Neither	no
Safety 1: safety opening activated	20	20	no
Safety 1: safety closure activated	21	Neither	no
Safety 2: safety opening activated	22	22	no
Safety 2: safety closure activated	23	Neither	no
Safety 3: safety opening activated	24	24	no
Safety 3: safety closure activated	25	Neither	no
Safety closure detected more than 2 minutes	Neither	26	no
Default self-test safety 1	30	30	yes
Default self-test safety 2	31	31	yes
Default self-test safety 3	32	32	yes
Reset on power up	Neither	40	no
SD : Skating Detection	41	41	yes
Vandalism	Neither	43	no
Blocking SAS	44	Neither	no
Buzzer	45	Neither	yes
Default internal supervision	60	60	yes

OPERATING PHASES

Display code	Definition
AC	Waiting order (board in standby)
OU	Total interior opening (total opening phase in progress with interior passage priority)
OE	Total outdoor opening (total opening phase in progress with outdoor passage priority)
OP	Partial opening (partial opening phase in progress)
FE	Closure (phase closure in progress)
AF	Waiting closure (door open, waiting closing)
LO	Reopening / After CDE or safety in the closing phase
LF	Reclosing / After safety in the opening phase

OPTION : light curtain

Product presentation

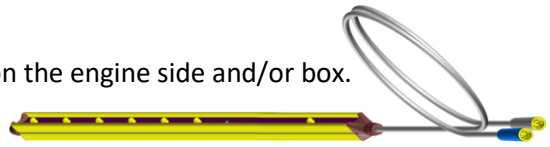
Light curtains (BI) are already installed on the vertical rails.

The emitting barrier (1 wire) is opposite to the engine.

The synchronization cable measures 10 m.

In the configurations of large doors, a 4 m connection cable extension is supplied.

The receptive barrier (2 wires) is on the engine side and/or box.



General instructions

- Do not scratch or paint the optical lenses, to not obstruct the beams !
  Do not drill additional holes in the optical edges.

- Do not bend or twist the optical edges !

- Oil and silicone can damage cables and profiles.
  Avoid soiling !

- Chemicals can damage the profile and alter the optical properties.
  Any contact must imperatively be avoided !
- Although the light curtain be insensitive to direct sunlight, avoid as much as possible its exposure, especially in the direction of the receiver.
- Avoid interference due to flashing lights or other infrared light sources, such as photoelectric cells or other light curtains.
- Do not install the light curtain in such a way that the optical edges are exposed directly to sources luminous, like FL tubes or energy-saving lamps.
- Ensure the correct placement of the connectors, on the optical edges.
- Although the light curtain does not emit dangerous amounts of infrared light, long exposure to intense infrared light sources can damage the eyes :

Never directly look at an active infrared emitter closely.

Installation

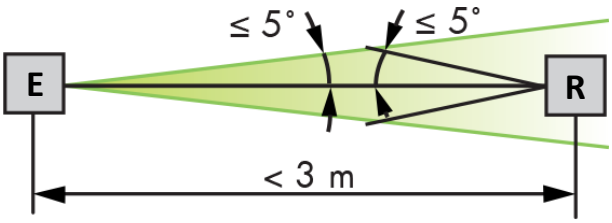
Before connecting the light curtains, control their good positions.
Note : The barrier with a 2-wire exit, must be on the side of the electrical box.

Warning of the risks of electrical and mechanical shocks :

- Electrical shocks and untimely door movements can cause serious injuries, even fatal.
- Follow the applicable security measures.
- Use only appropriate tools.
- If the light curtain needs to be adjusted, the general power supply must be unplugged and indicated out of service.
- Do not drill additional holes in the optical edges.

Alignment

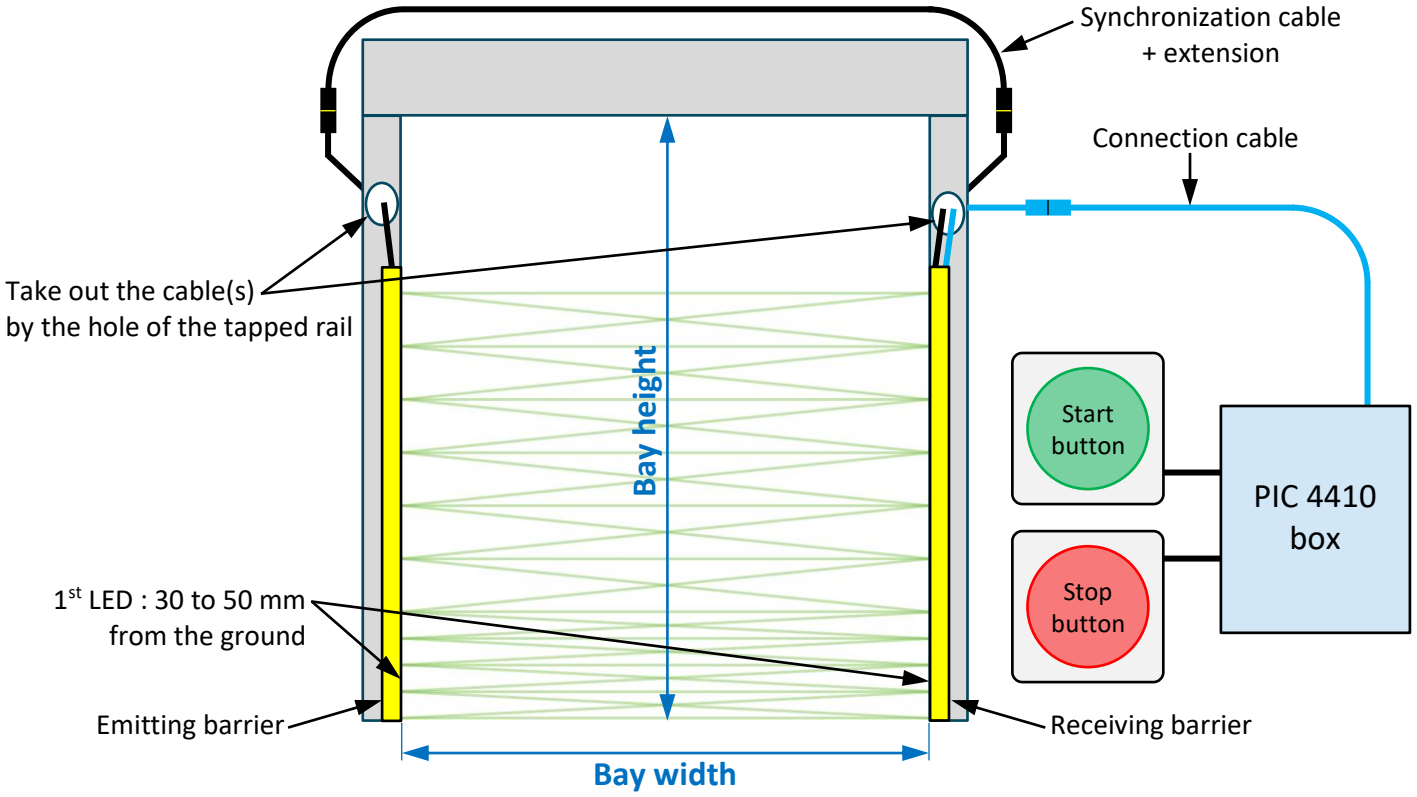
The optical axis of the transmitting edge (**E**) and receiving edge (**R**) must be aligned, in order to ensure the light curtain its good functioning.



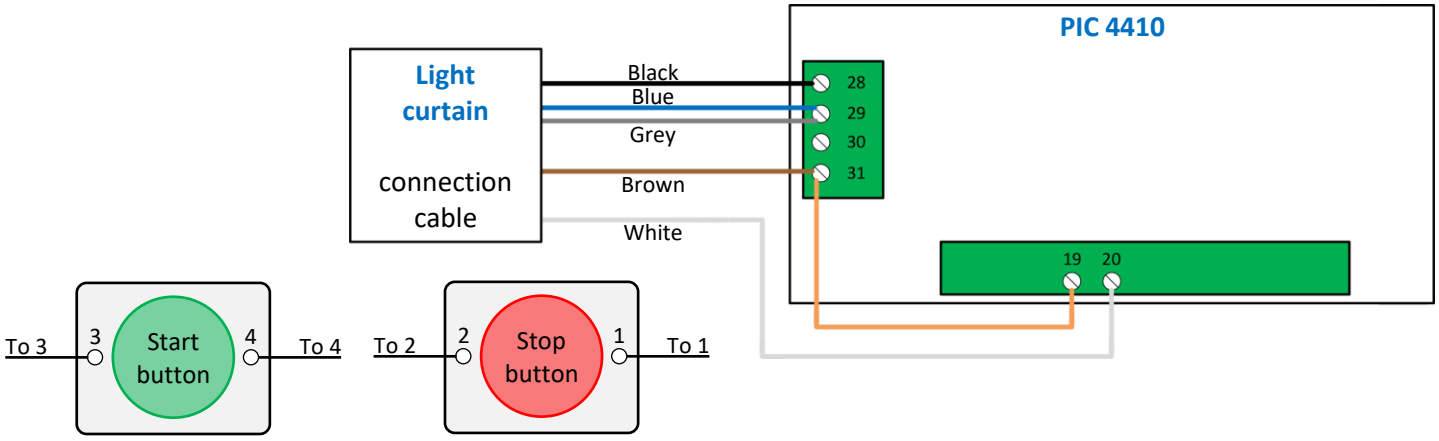
Reflective surfaces that are parallel or close to the protection zone can create or cause reflections that interfere with the proper functioning of the light curtain.
Keep a reasonable distance between the optical edges and any reflective surface.

At the level of each ray path, a self-calibration takes place. upon activation, the ideal transmission line is determined and used. In order to avoid interruptions due to dust, the system controls the emitted power and adapts the intensity by increasing or reducing it as needed.

Connection diagram



Check that no electrical cable is in contact with a moving part of the door in operation.



Configuration of the PIC 4410 box

Mandatory self-learning to be performed, after setting the parameters.

	Functioning	
	PULSE	**AUTOMATIC**
F0 - Choice of scenario	00 - Sliding scenario without slowdown	
D0 - Generic settings menu	D1 - 01 - Manual 1 BP	D1 - 00 - Automatic
	D2 - On - With	
	D3 - Off - Without	
	D5 - Off - Without	
	D6 - Off - No	
	D9 - 04 - Dead man	
E0 - Input menu	E1 - 00 - Deactivated	
	E2 - 00 - Deactivated	
	E3 - 03 - Security closure without self-test	
	E8 - Off	
J0 - Output menu	J1 - 00 - Strike plate	
	J2 - 03 - Self-test output	
	J9 - 00	

Description of the state of LEDS (light curtain)

Receiving edge (Rx)		
LED green	**LED red**	**Sensor status**
●	○	Free protected field
○	●	Protected area interrupted or door closed
○	☼	Start (slow flashing)
○	☼	Internal error (fast flashing)
○	○	No voltage or defective optical edge

● = Illuminated LED ○ = LED off ☼ = Flashing LED

Emitting edge (Tx)	
LED green	**Emitting edge**
●	Voltage OK
○	No voltage or defective optical edge

Commissioning

- Self-learning is done.
- The settings of the box are provided.
- Activate the main supply current and the door control.
  Note : The receiver LEDS flash during startup.
- Check the status of the LEDS on the optical edges (powered on, green LEDS lit).
- Test if the system is working correctly :
  - Let the door open and close.
  - Interrupt the optical beams during opening and closing movements.
- The implementation of the door is done.

Malfunctions of light curtains

Tx LED green	Rx LED green	Rx LED red	Measure
LED off	LED off	LED off	• Check the electrical connections. • Check the power supply of the control cabinet.
LED off	LED off	LED red	• Check the connection of the sync cable.
LED green	LED green	LED off	• Be sure that the optical edges are not mounted close to any shiny or reflective surface. • Restart the system.
LED off/on (green shimmering)	LED off	LED off/on (red shimmering)	• Check the supply voltage. • Check the connections.
LED green	LED off	LED off/on (slow flashing, red)	• Be sure that the protected field is not interrupted. • Check the alignment of the light curtain. • Clean the items.
LED green	LED off/on (green shimmering)	LED off/on (red shimmering)	• Be sure that the protected field is not interrupted. • Clean the items. • Be sure that the cables and optical edges are located far from all sources of electromagnetic interference. • Ensure that the transmitter and receiver are correctly aligned as well as during the closing of the door (example : vibrations that misalign the optical edges). • Restart the system.
LED green	LED off	LED red	• Be sure that the protected field is not interrupted. • Door completely reopened. • Clean the items. • Check the alignment of the light curtain. • Check that the Test input is connected to the Test output signal of the gate control unit, that the signal level and logic (HIGH/LOW) are correct. If the test input is not used, connect it to Usp. • Measure the supply voltage. • Restart the system.
LED off	LED off	LED off/on (slow flashing, red)	• Check the connection of the sync cable.
LED green	LED off	LED off/on (fast flashing, red 5Hz)	**Appearance internal error** • Restart the system. • Replace the edge Rx.

IMPORTANT : Each time a parameter is changed, the system must be restarted.

Maintenance

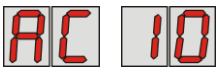
Although the light curtain does not require regular maintenance, a periodic functional check is highly recommended :

- Be sure that the optical elements are free from dust and dirt.
  If necessary, clean the optical face with a soft cloth.
- Be sure that the optical edges are securely fixed.
- Check the mounting position, cables and sensor connection.

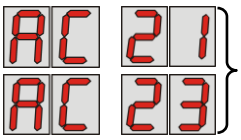
Note : Deterioration of the optical elements.

- Never use solvents, cleaners, abrasive towels or pressure washer, to clean the sensor.
- Do not scratch the optical elements during cleaning.

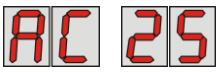
Most common errors and information



Permanent control :
Check the controller connections.

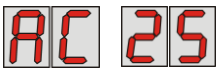


Activated cells :
Check the connections and that the cells are functioning correctly.



Activated safety edge :
Check the connections, see chapter : Safety connections (resistive safety edge).

OR



With light curtain :
Obstacle in the bay detected.

Note : for other errors, see chapter : Programming menu layout (default management).

To detach and display next to the door

Emergency operation

Emergency assistance

The door is not working :

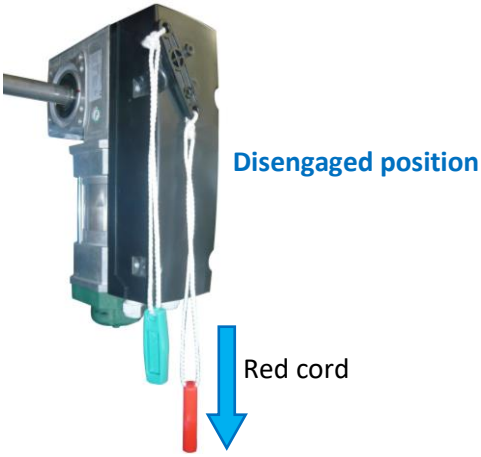
- Check the power supply and fuses.
- If the operator has been placed under a lot of stress, wait for it to cool down, the temperature sensor will restart automatically.
- If the operator has been used for an emergency operation, check that it has been re-engaged.
- Contact your installer.

The door stops during use :

- Check the power supply and fuses.
- Check that there are no obstacles and « sticking points » that could impede movement of the shutter.
- Contact your installer.

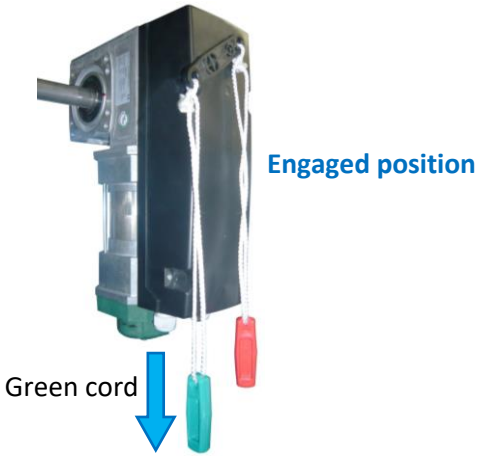
Emergency operation

1. Pull on the 1st cord (red) to disengage.



2. You can now operate the door manually.

3. After the emergency operation, pull on the 2nd cord (green) to engage.



Contact customer services

(Installer's stamp)