PUMA-I PUS410EIC(M)

Quick installation and programming guide

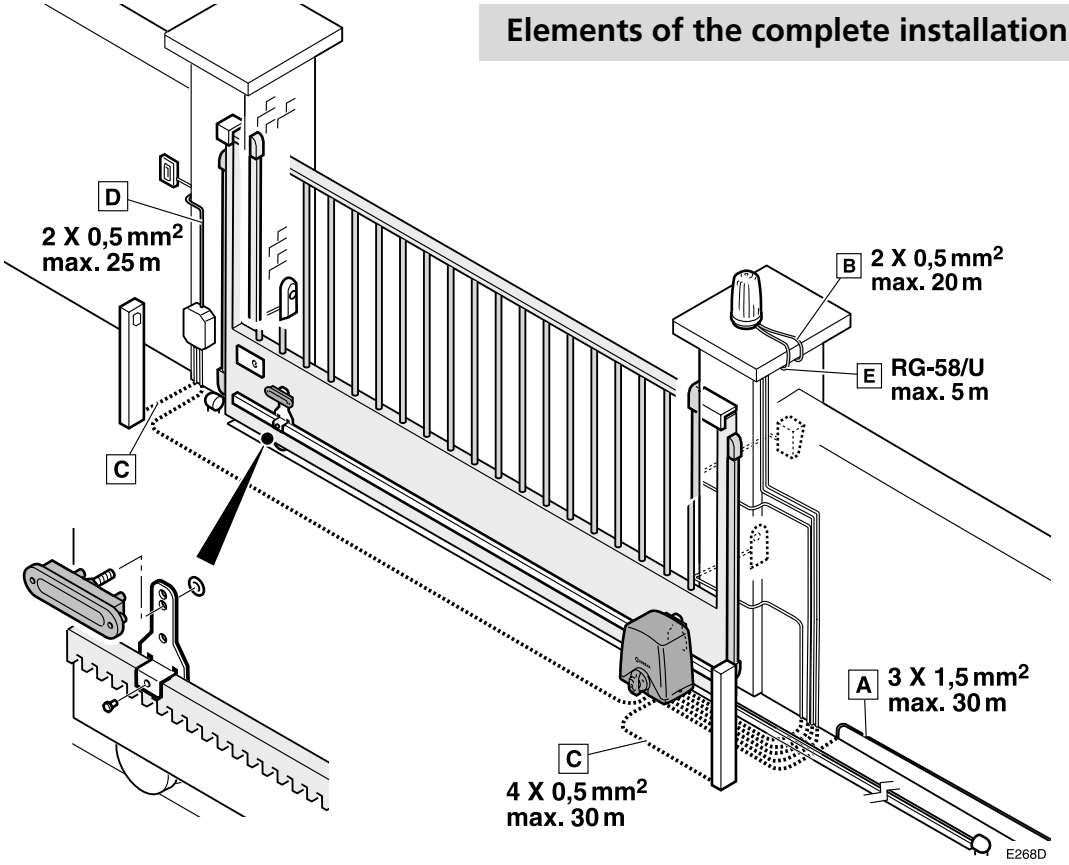
English

IMPORTANT NOTE

This quick guide summarises the full installation manual. The full manual contains safety warnings and other explanations that must be taken into account. You can download the latest version of this guide and the installation manual in the "Downloads" section of the Erreka website:
http://www.erreka.com

The options and functions described in this guide are applicable from the *firmware* version indicated on the circuit. As part of a process of continuous improvement, the *firmware* is subject to the incorporation of new functionalities or their extension, and consequently to the generation of new versions not necessarily compatible with the previous ones. Therefore, if your *firmware* version is lower than the one indicated in this guide, some options and functions may not be available or may be different.

Elements of the complete installation



Electrical wiring

A: Main power supply

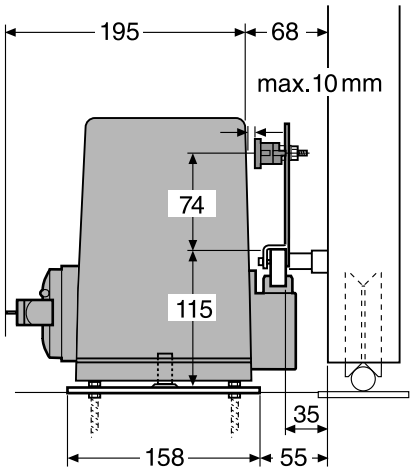
B/E: Flashing light/Antenna

C: Photocells (Tx / Rx)

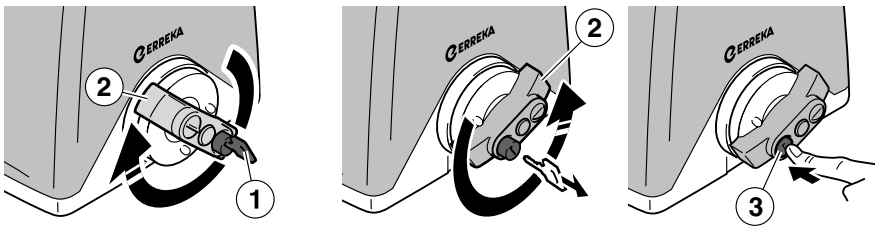
D: Pushbutton/wall key

WARNING: The PUMA-I operator is supplied without a capacitor for the motor, since the control board's Inverter technology makes it unnecessary. If this board is used to replace another operator, **do not use a capacitor for the motor**.

Assembly levels (mm)



Unlocking - Locking



Unlocking for manual operation:

- Insert the key (1) and turn clockwise without forcing it.
- Turn the handle (2) clockwise 270°, through to the stopper but without forcing it.

Locking for operation motorised:

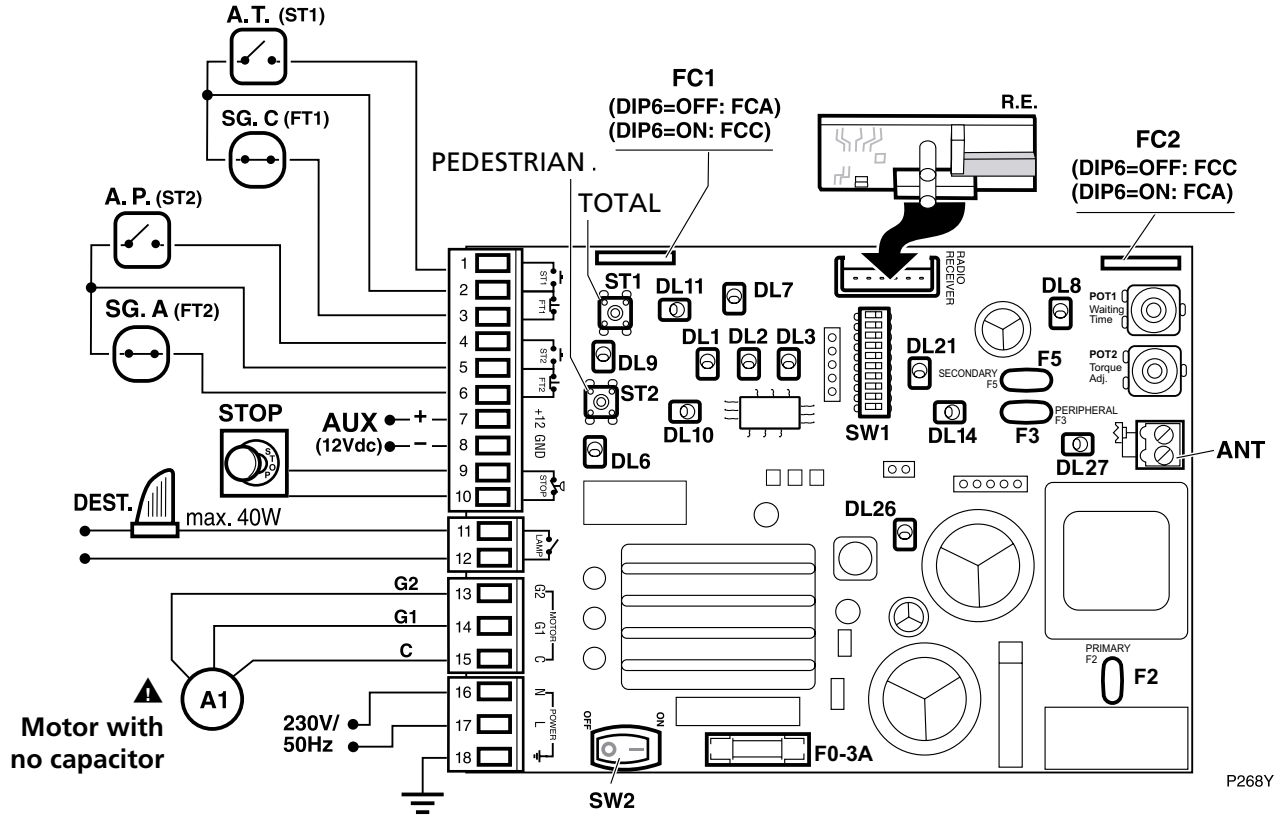
- Turn the handle (2) anti-clockwise 270° without forcing it.
- Turn the key (1) anti-clockwise and remove.
- Push the cylinder (3) inward and manually move the gate to interlock it in the operator mechanism

Firmware V0.04 or later

MSM-042/02 – 2023-12-18

General connections

⚠ **A capacitor should not be used for the motor with the PUMA-I operator fitted with Inverter technology control board.**



DL1 Automatic closing LED
DL2 Radio programming LED
DL3 Travel programming LED
DL6 FT2 photocell LED
DL7 FC1 limit switch LED
DL8 FC2 limit switch LED
DL9 FT1 photocell LED
DL10 ST2 pushbutton LED
DL11 ST1 pushbutton LED
DL14 Settable fuse (F5) LED:
- DL14 ON: fuse closed;
- DL14 OFF: fuse open

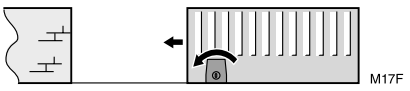
DL21 Encoder LED
DL26 DC Bus LED
DL27 Settable fuse (F3) LED:
- DL27 ON: fuse closed;
- DL27 OFF: fuse open

F0 Main Fuse (5x20); 3A
F2 Primary Fuse settable 230VAC/ 250mA; resets automatically when overload ends
F3 Peripheral Fuse settable 12VDC/ 250mA; resets automatically when overload ends
F5 Secondary Fuse settable 12VDC/ 500mA; resets automatically when overload ends

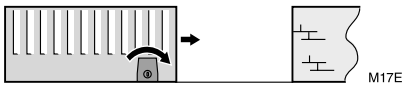
Encoder (DIP7): for the correct operation of the encoder, ensure DIP7 is in ON. The operation needs to be reprogrammed if the encoder is disabled.
Check that DL21 flashes during gate movement.

Check and configure turning direction and limit switches

Turning direction: check operation using ST1 and ST2 mini-pushbuttons with DIP1=ON. If turning direction is not as indicated for position DIP6, interchange the wires connected to the G1 and G2 terminals.

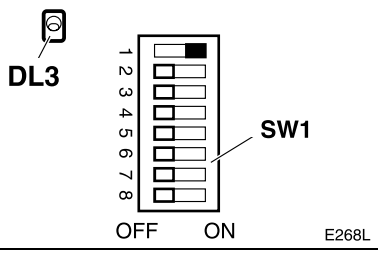


DIP6=OFF



DIP6=ON

SW1 Functions during programming (DIP1=ON)

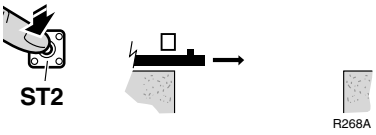


DIP1=ON: programming enabled (DL3 lights up); ST1: open, ST2: close
DIP1=ON and DIP2=ON: total open/close programming
DIP1=ON and DIP3=ON: pedestrian open/close programming
DIP1=ON and DIP4=ON: total opening radio code programming
DIP1=ON and DIP6=ON: pedestrian opening radio code programming

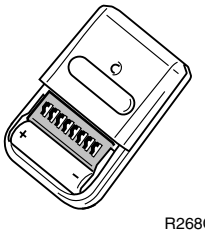
Total opening radio code programming (with RSD receiver only)

☞If a receiver other than RSD is used, see the corresponding instructions.

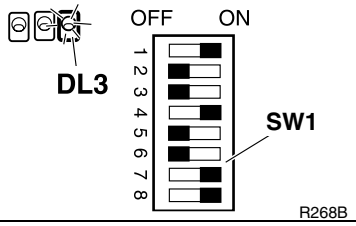
1 Connect the power supply and close the gate with DIP1 in ON position and keeping ST2 pressed down.



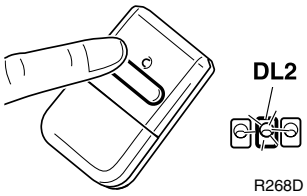
2 Select the code in the transmitter.



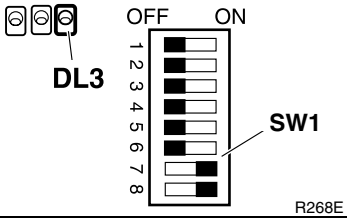
3 Place the DIPs as shown in the figure (DIP1=ON, DIP4=ON). DL3 lights up to show programming mode enabled.



4 Press the button of the required channel. DL2 flashes when programming is complete.



5 Place DIP1 and DIP4 in OFF. DL3 remains off.



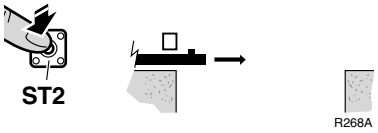
6 Disconnect and reconnect the electrical power supply.

Pedestrian opening radio code

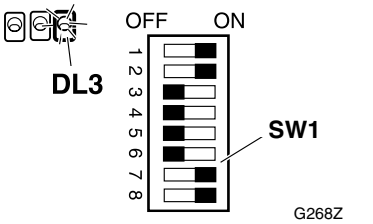
Programming is carried out in the same way, using DIP6 instead of DIP4.

Total open/close programming

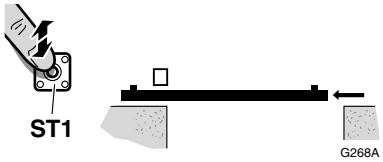
1 Connect the power supply and close the gate with DIP1 in ON position and keeping ST2 pressed down.



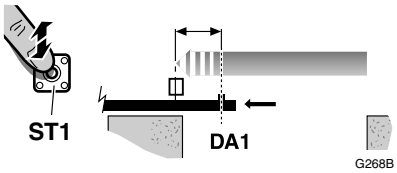
2 Place the DIPs as shown in the figure (DIP2=ON, DIP1=ON). DL3 lights up to show programming mode enabled.



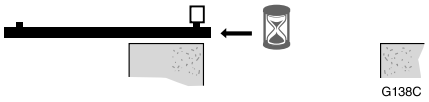
3 Press ST1 to start opening.



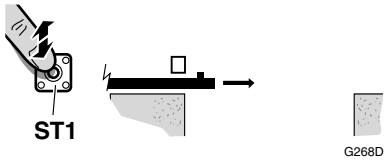
4 Press ST1 to start slowdown.



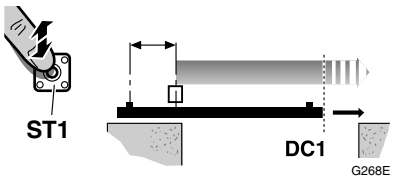
5 Wait for it to come to a stop at the end of travel.



6 Press ST1 to start closing.

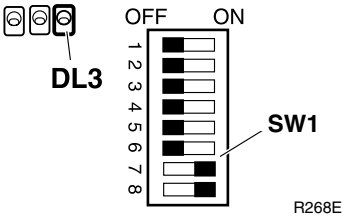


7 Press ST1 to start slowdown.



8 Wait for it to come to a stop at the end of travel.

9 Place DIP1 and DIP2 in OFF. DL3 remains off.



Pedestrian open/close programming

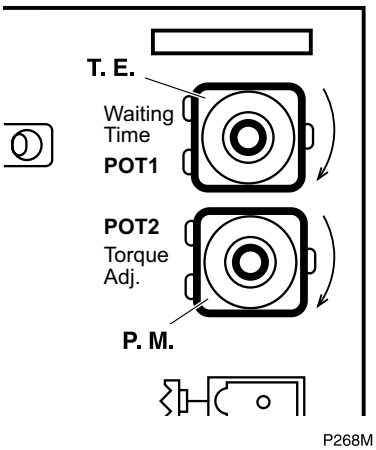
This is carried out in the same way as total travel programming, with the following differences:

- DIP1 and DIP3 are used instead of DIP1 and DIP2
- ST2 is used instead of ST1
- In step 5, stop the gate with ST2

Function and mode selection using SW1 (DIP1 = OFF)

DIP	Modes and functions	Option	Effect
DIP1		OFF	
DIP2	Advance warning	ON	the flashing light comes on and the operation begins after a 3 second warning
		OFF	the flashing light comes on and the operation begins immediately
DIP3	Opening mode	ON	step-by-step opening (the gate halts if a key command is activated during opening, and closes if activated again)
		OFF	collective opening (the control board does not obey the key commands during opening)
DIP4	Automatic or step-by-step mode (for pedestrian and total operation)	ON	automatic mode (the gate closes automatically after standby time has passed, which is adjusted using T.E.). A key command (or photocell activation) causes standby time to restart
		OFF	step-by-step mode (the gate only closes when receiving the key command)
DIP5	Automatic mode optional (only if DIP4 = ON)	ON	during standby, the gate obeys the key commands (can be closed before standby time finishes)
		OFF	the gate cannot be closed until standby time finishes; a key command will cause standby time to restart
DIP6	Gate movement direction	ON	gate which opens to the left
		OFF	gate which opens to the right
DIP7	Encoder	ON	encoder enabled
		OFF	encoder disabled
DIP8	Slowdown	ON	the gate reduces its speed before reaching the stopper
		OFF	the gate reaches the stopper at high speed

Potentiometer adjustment



T.E. (Standby Time): gate open standby time

If automatic functioning mode has been programmed (DIP4=ON), set T.E. to adjust standby time with the gate open (before automatic closing begins).

- Minimum value: 0 seconds; maximum value: 90 seconds

P.M. (Torque Regulator): motor torque

Use P.M. to adjust the maximum motor power value.

⚠ **Adjust the torque to respect the maximum closing thrusts set out in Standard EN12453:2000. Make the measurements as described in Standard EN 12445:2000.**