SMART-D201(M)

Quick installation and programming guide

English

IMPORTANT NOTE

This quick guide is a summary of the complete installation guide. The guide contains safety warnings and other explanations that must be taken into account. The most recent versions of this guide and the installation manual are available at the "Downloads" section on Erreka's website. http://www.erreka-automation.com

The options and functions described in this guide apply for the firmware version indicated on the circuit. The firmware, as part of a process of continuous improvement, is subject to new functionalities or upgrades being included as a result of new versions which are not necessarily compatible with previous ones. For this reason, some options or functions may differ or be unavailable if your firmware is older than shown in this guide.

Elements of the complete installation

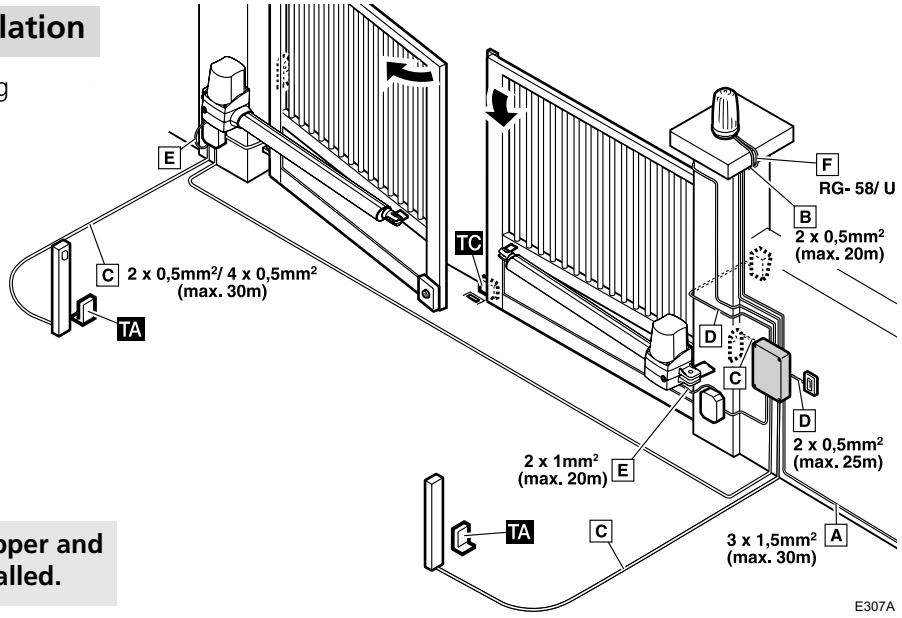
NOTE: this control panel is valid for swing gate operators, for example:

- TEMIS (no encoder or limit switches)
- KAIROS (with or without limit switches)
- ARES 24V

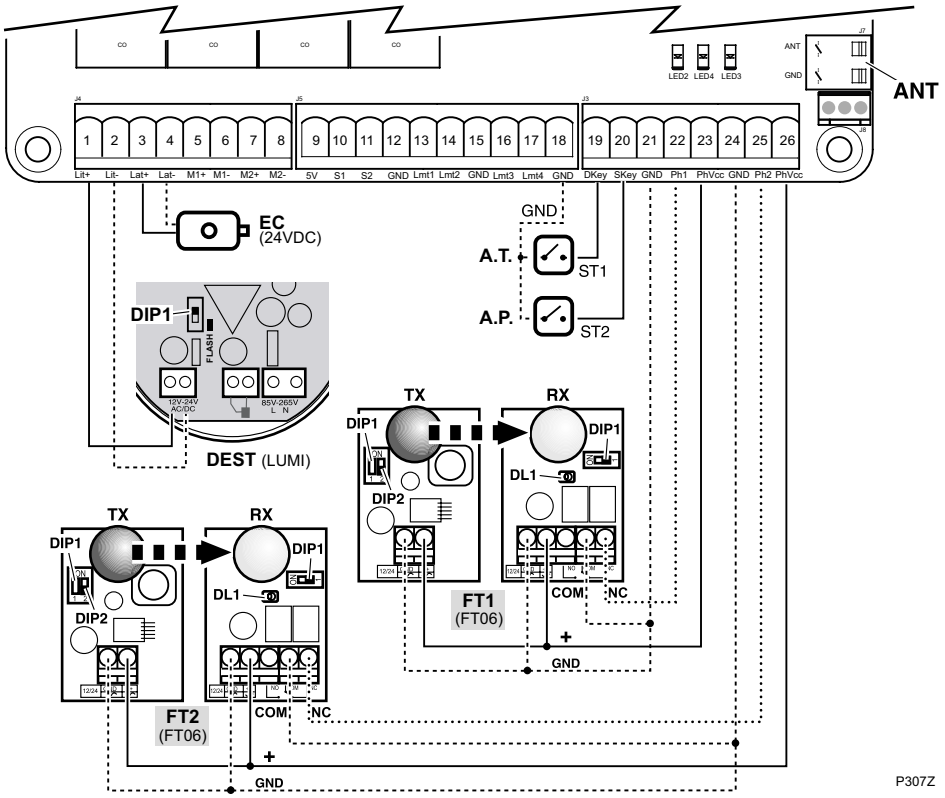
Electrical cables

A: Main power supply
B/F: Flashing light with antenna
C: Photocells (Rx/Tx)
D: Pushbutton/key switch
E: Operator

VERY IMPORTANT: the TC closing stopper and the TA opening stoppers must be installed.



Peripheral cabling (valid for all cases)



ANT Cable connectors for antenna
EC Electrolock 24 VDC
A.T. Double-leaf opening pushbutton
A.P. Single-leaf opening pushbutton
DEST Flashing light (ERREKA LUMI) Configure DIP1 as shown in figure
FT1 Exterior safety device (ERREKA FT06 photocell)
FT2 Interior safety device (ERREKA FT06 photocell)

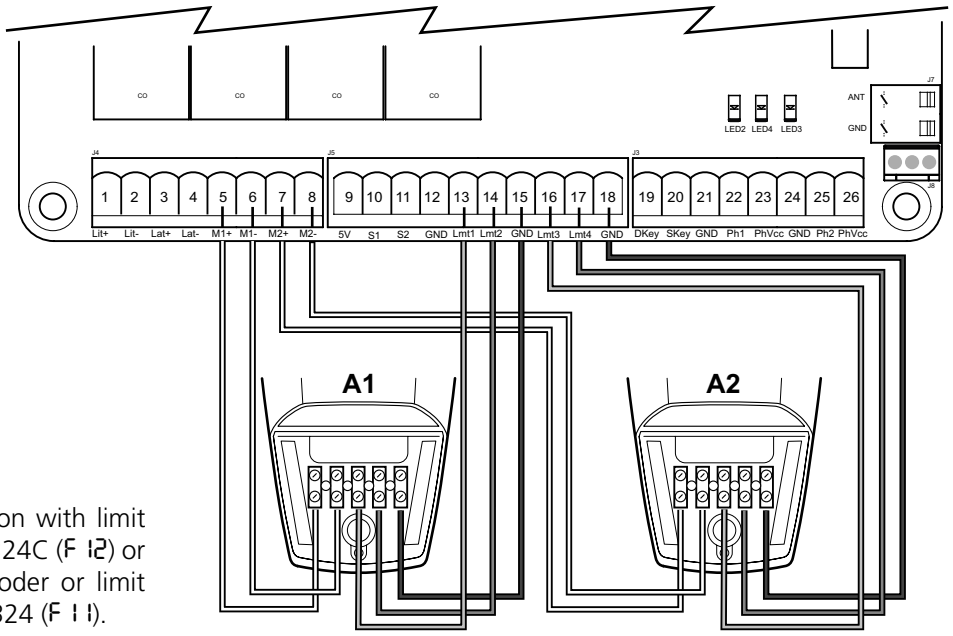
Operator electrical connections with limit switches (KAIROS)

☞ In single-leaf installations, make the connections in A1.

A1 Operator 1
A2 Operator 2
5/7 M1+ operator 1 / M2+ operator 2
6/8 M1– operator 1 / M2– operator 2

For KA3324C only:
13/16 Opening PC A1/A2
14/17 Closing PC A1/A2
15/18 Common PC A1/A2

- Programme F 1 for operation with limit switches for operator KA3324C (F 12) or for operation without encoder or limit switches for operator KA3324 (F 11).



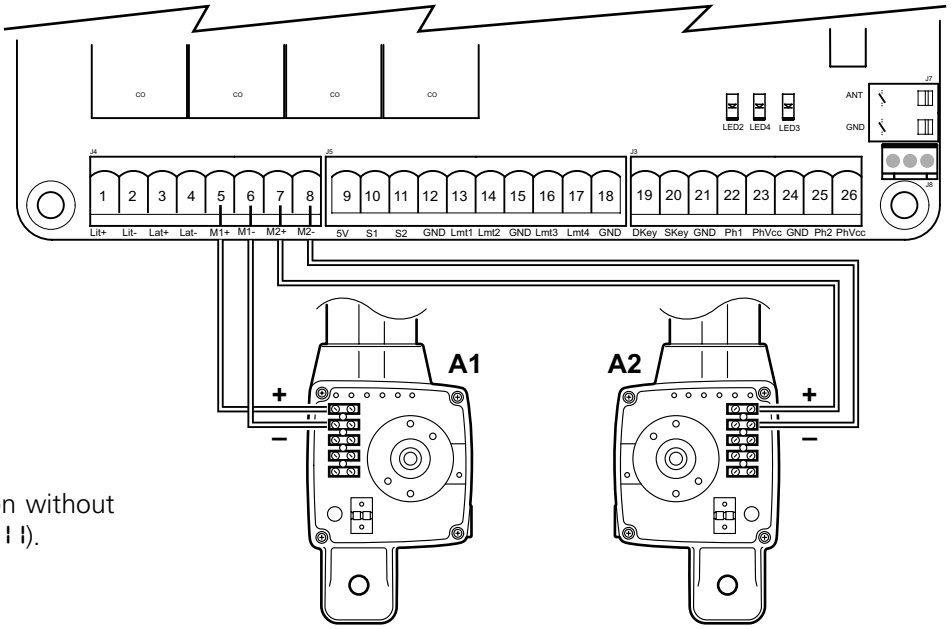
P302W

Operator electrical connections without encoder or limit switches (TEMIS)

☞ In single-leaf installations, make the connections in A1.

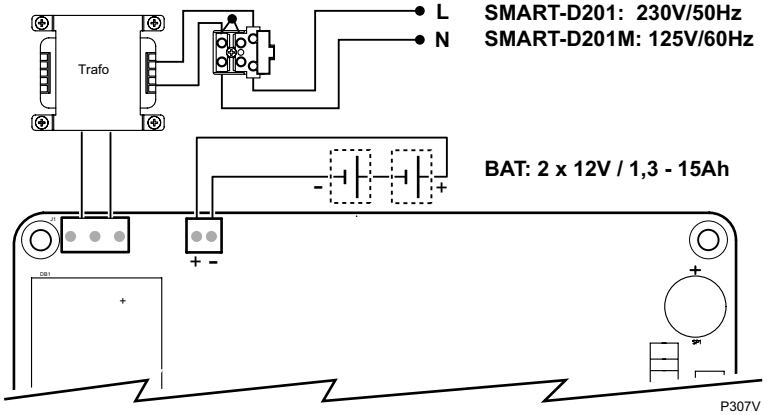
A1 Operator 1
A2 Operator 2
5/7 M1+ operator 1 / M2+ operator 2
6/8 M1– operator 1 / M2– operator 2

- Programme F 1 for operation without encoder or limit switches (F 11).



P303W

Electricity connection

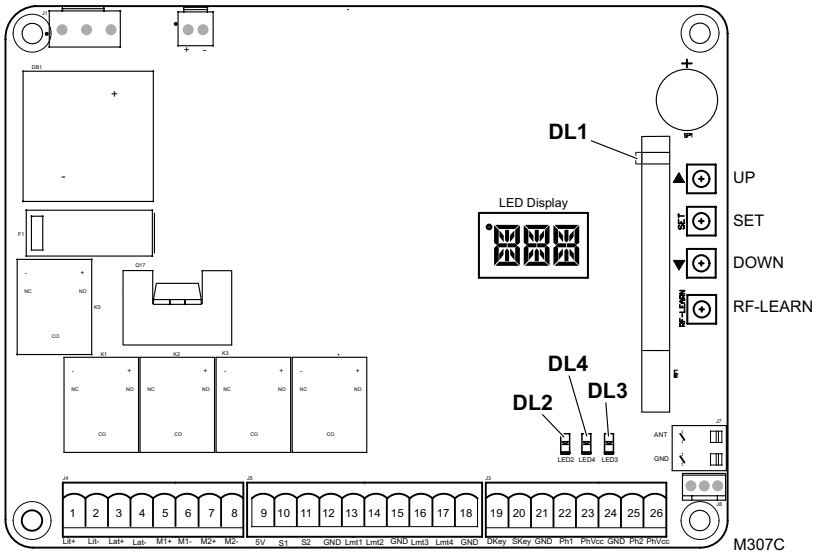


P307V

Battery connection (BAT):

- There is no need to incorporate a charger as there is already one in the control panel.
- The maximum allowable capacity of the batteries is 15Ah.
- There is capacity for two batteries of 1.3Ah maximum inside the box.

Display indications, LEDs and pushbuttons



Pushbuttons:

UP Goes through the options during programming

SET Selects the options during programming

DOWN Goes back through the options during programming

RF-LEARN Programmes and erases transmitters

LEDs:

DL1 (blue) Stores radio code

DL2 Pushbutton or key switch

DL3 FT1 photocell

DL4 FT2 Photocell

Display indications:

N-L Gate open/close not programmed

LEA You have entered open/close programming

APN Programming open/close about to start

J-G Programming double-leaf gate open/close

S-G Programming single-leaf gate open/close

RUN Programming complete

CLN Memory erased (reset to factory settings)
To return to default settings, hold down "UP" and "DOWN" until "CLN" appears. The memory returns to default settings and the display shows "N-L".

M-E Error in gate operation

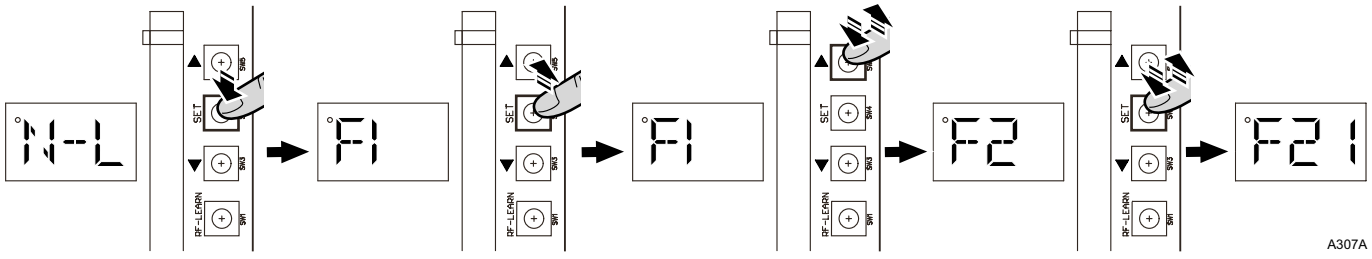
STP The operator has stopped in an intermediate part of the run

Selecting the number of leaves (parameter F 1)

1 Hold down "SET" until the display shows F 1. Then release "SET".

2 Press "UP" once: the display changes to F2.

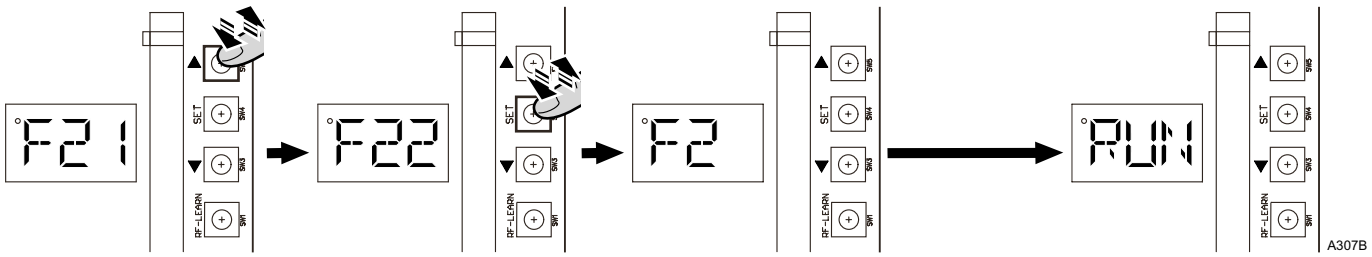
3 Press "SET" once: the display changes to F2 1.



4 Press "UP" once: the display changes to F22.

5 Press "SET" once: the display changes to F2.

6 Programming is exited after a few seconds without pressing any button.



Radio code programming (Roller Code transmitters)

☞ The radio card receives Standard Roller Code transmitters: IRIS (IR02, IR04) and LIRA (LR02). It does not receive fixed codes (LUNA/KUMA).

1 Connect the power.
Hold down "RF-LEARN" until the blue DL1 LED lights up.
Release "RF-LEARN" when DL1 comes on.

2 While "DL1" is on, hold the button for the transmitter to be programmed down for 5s:

A: Use Channel 1 (button A) for double-leaf gates

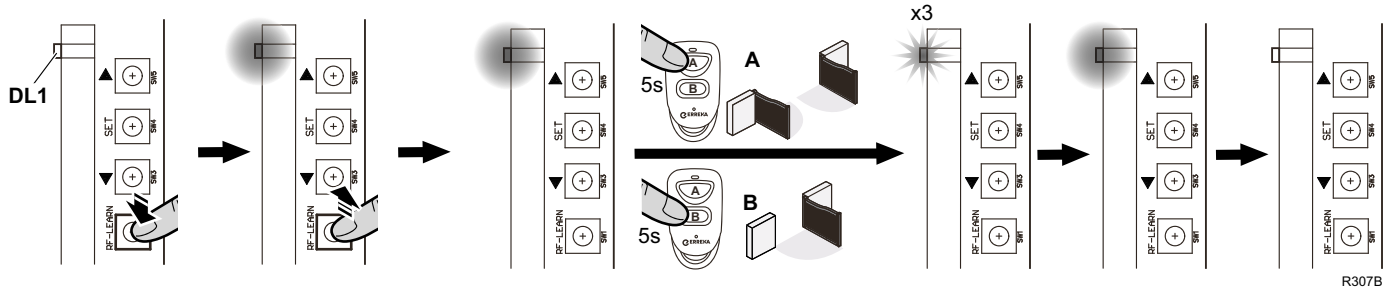
B: Use Channel 2 (button B) for single-leaf gates

DL1 will flash 3 times to indicate that programming was correct.

3 Transmitters can be programmed for as long as DL1 remains on.

DL1 will go off a few seconds after the last programmed transmitter.

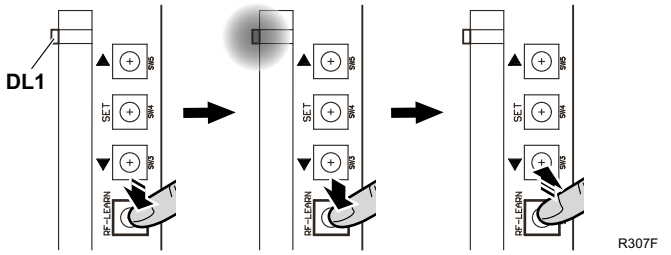
☞ The receiver has memory to store up to 200 codes.



Deleting all the transmitters

1 Connect the power.

2 Hold down "RF-LEARN" for about 10 seconds, so that DL1 is turned on and then off. All transmitters are erased from the memory.



Programming open/close

⚠ **The opening and closing limit switch must be installed before programming open/close, since this programming is done with the leaves travelling as far as they can.**

☞ Make sure the F2 parameter (number of operators) is set correctly: F21 for double-leaf gates; F22 for single-leaf gates (see section "Selecting the number of leaves (parameter F 1)" on page 9).

☞ Having the F31 parameter programmed is recommended when programming the TEMIS and KAIROS operators. F32 is recommended for the ARES 24V.

☞ Open the leaves slightly before programming open/close.

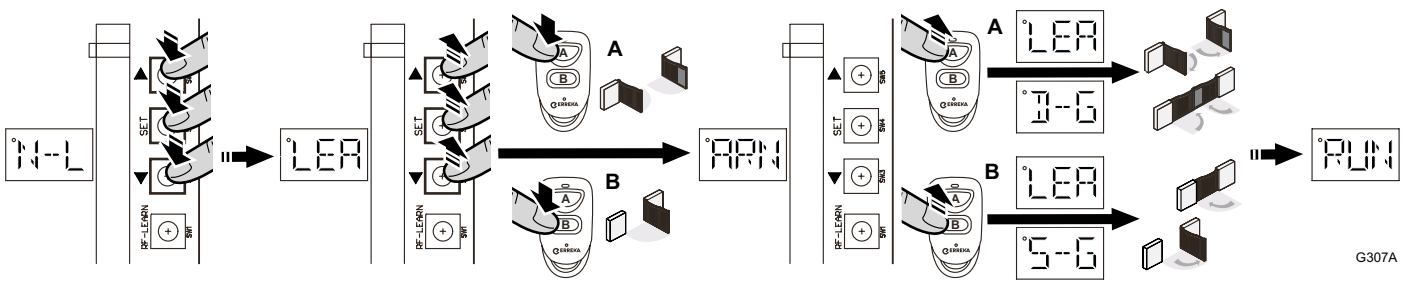
☞ Closing must be the first movement of each leaf when programming the run (step 3). If this is not the case, exchange the M+ and M- cables of the associated motors.

1 Hold "UP" + "SET" + "DOWN" down at the same time until the display shows "LEA". Then release the three buttons.

2 The double-leaf gate's open/close is programmed by pressing the transmitter's A button until the display shows "ARN".
The single-leaf gate's open/close is programmed by pressing the transmitter's B button until it shows "ARN".

3 Wait while the leaf runs are carried out and programmed: The display shows "LEA" + "D-G" in double-leaf gates, and "LEA" + "S-G" in single-leaf gates.

The display will show "RUN" when programming finishes.



Complete programming chart

INITIAL NOTES:

☞ F3 menu, trapping force: this parameter must be set to value F31 (for TEMIS and KAIROS operators) or value F32 (for ARES 24V) when programming open/close. After programming open/close, the display shows a figure indicating the current value multiplied x 10 (showing 10 for 1A, 20 for 2A, etc).

☞ F9 menu: the exterior photocell (FT1) only works during closing.
The interior photocell (FT2) works both during opening and closing.

☞ The voltage output for the 24 VDC flashing light is intermittent (FB menu).
The flashing light used should therefore be configured in static mode.

☞ Change the FC0 parameter to FC1 to enable the exterior safety photocells (FT1).
Change the FD0 parameter to FD1 to enable the interior safety photocells (FT2).

Menu	Description	Options	Preset option	Options or values
F1	Encoder / Limit switches	F11	F11	F11: not installed
		F12		F12: with limit switches
		F13		F13: with single encoder
F2	Number of operators	F21	F21	F21: two operators
		F22		F22: one operator
F3	Maximum trapping current: Select F31 while programming TEMIS and KAIROS. Select F32 while programming ARES 24V.	F31	F31	F31: 2A
		F32		F32: 3A
		F33		F33: 4A
		F34		F34: 5A
F4	Gate speed	F41	F41	F41: 100% of maximum speed
		F42		F42: 80% of maximum speed
F5	Slowdown	F51	F51	F51: slowdown in opening and closing
		F52		F52: no slowdown
F6	Slowdown speed	F61	F62	F61: 70% of maximum speed
		F62		F62: 50% of maximum speed
		F63		F63: 35% of maximum speed
		F64		F64: 25% of maximum speed
F7	Lapse between leaves in opening and closing	F71	F71	F71: 2 seconds
		F72		F72: 3 seconds
		F73		F73: 4 seconds
		F74		F74: 5 seconds
		F75		F75: 6 seconds
		F76		F76: 7 seconds
		F77		F77: 8 seconds
		F78		F78: 9 seconds
		F79		F79: 10 seconds
F8	Automatic or step-by-step operation mode and standby time (in seconds) in automatic mode	F80	F80	F80: Step-by-step mode
		F81		F81: Automatic mode and stand-by time 3s
		F82		F82: Automatic mode and stand-by time 10s
		F83		F83: Automatic mode and stand-by time 20s
		F84		F84: Automatic mode and stand-by time 40s
		F85		F85: Automatic mode and stand-by time 60s
		F86		F86: Automatic mode and stand-by time 120s
		F87		F87: Automatic mode and stand-by time 180s
		F88		F88: Automatic mode and stand-by time 300s
F9	Functions of FT1-FT2	F91	F91	F91: FT1 exterior photocell, FT2 interior photocell
		F92		F92: FT1 exterior photocell, FT2 safety strip
		F93		F93: FT1 exterior photocell, FT2 opening device
		F94		F94: FT1 photocell interlock, FT2 interior photocell

Menu	Description	Options	Preset option	Options or values
FA	Selecting pedestrian opening	FA0	FA0	FA0: pedestrian opening is not carried out
		FA 1		FA 1: open the single leaf with the transmitter's B button
FB	Flashing light pre-warning	FB0	FB0	FB0: no pre-warning; the light comes on and the gate starts to move at the same time
		FB 1		FB 1: 3 seconds' notice; the light comes on and the gate does not start to move until 3 seconds have elapsed
FC	FT1 photocells (exterior)	FC0	FC0	FC0: OFF (disabled)
		FC 1		FC 1: ON (enabled)
FD	FT2 photocells (interior)	FD0	FD0	FD0: OFF (disabled)
		FD 1		FD 1: ON (enabled)
FE	Buzzer	FE0	FE0	FE0: OFF (disabled)
		FE 1		FE 1: ON (enabled)
FF	Reverse impulse for electric lock	FF0	FF 1	FF0: OFF (disabled)
		FF 1		FF 1: ON (enabled); the gate reverses slightly to help release the electric lock
FG	Transmitter button for complete run (open - stop - close - stop)	FG 1	FG 1	FG 1: transmitter button A
		FG2		FG2: transmitter button B
		FG3		FG3: transmitter button C
		FG4		FG4: transmitter button D
FH	Transmitter button for pedestrian mode	FH0	FH2	FH0: OFF (pedestrian opening is not carried out)
		FH 1		FH 1: transmitter button A
		FH2		FH2: transmitter button B
		FH3		FH3: transmitter button C
		FH4		FH4: transmitter button D
FI	Transmitter button to enable/ disable automatic closing mode When the flashing light and buzzer are active, the transmitter's button to enable/ disable automatic closing does not work until the flashing light or buzzer stop working	FI0	FI0	FI0: no button
		FI 1		FI 1: transmitter button A
		FI2		FI2: transmitter button B
		FI3		FI3: transmitter button C
		FI4		FI4: transmitter button D

Leaf operation

During opening:
The leaves stop if the transmitter button, pushbutton or key switch are operated during opening. The leaves close if re-enabled.

During closing:
The leaves stop if the transmitter button, pushbutton or key switch are operated during closing. The leaves open if re-enabled.

During opening and closing:
For safety reasons, the leaves stop if they come across any obstacle during opening or closing.