

Fermator

AUTOMATIC DOORS FOR LIFTS

ENG

Quick start guide.

Automatic horizontal sliding car door.

VF7+ Relay configuration software version V7.01.08.



Development and production by Fermator.

Attention: Any proposed modification not shown in this manual should be clarified with our Technical Department before actioning.

Fermator accepts no responsibility for any resultant damage produced in the equipment described in this manual and associated installation if the instructions given have not been followed.

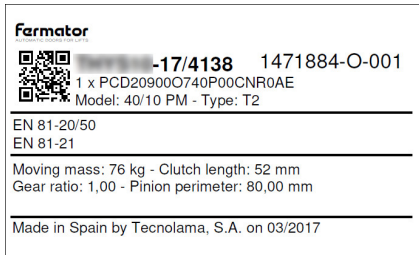
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For further information please contact with our product department:
product@fermator.com

The aim of this document is to describe graphically a quick method to configure the VF7+ Relay software version V7.01.08-01. Steps listed below must be followed to ensure the correct device configuration:









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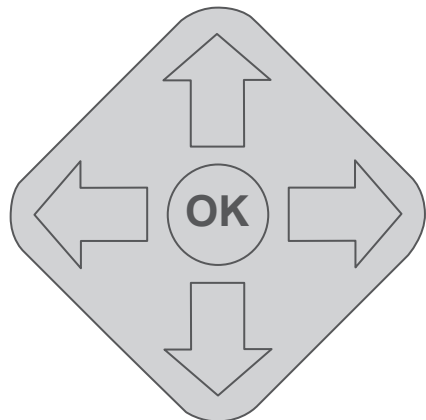
1 DOOR PARAMETERS

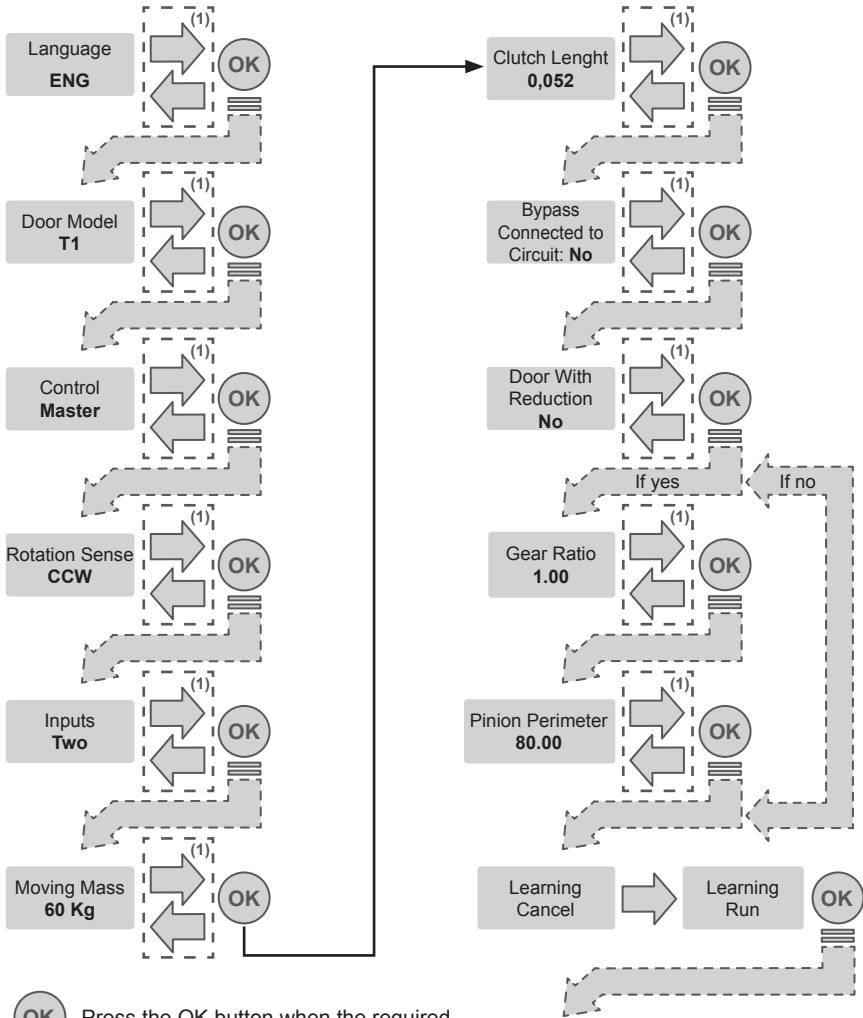


Note: See annexes if the operator does not have the label with the parameters.

2 SYMBOL KEY

-  - Down arrow button must be pressed.
-  - Up arrow button must be pressed.
-  - Right arrow button must be pressed.
-  - Left arrow button must be pressed.
-  - Ok button must be pressed.
-  - Automatic Screen change.
-  - Learning process being executed.
Do not press any button.
-  - Data input.

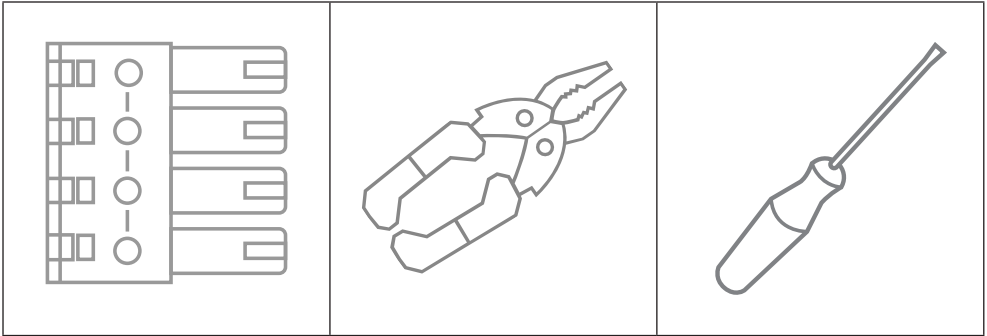




OK Press the OK button when the required option has been selected.

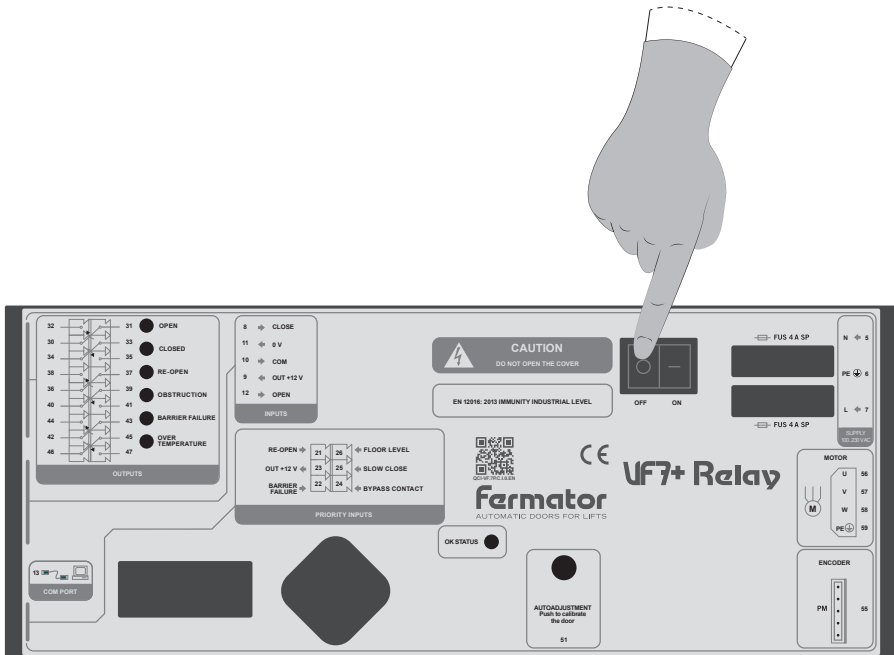
(1) Press right and left button arrow for select your option.

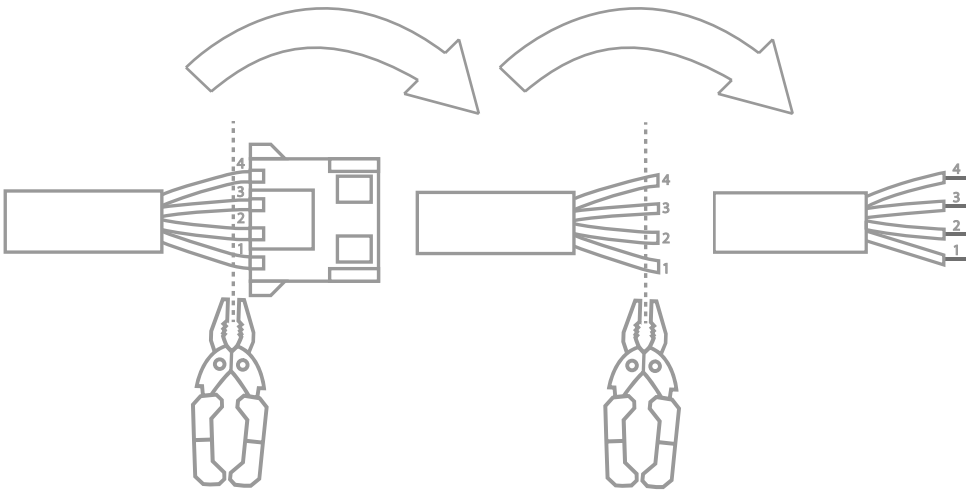
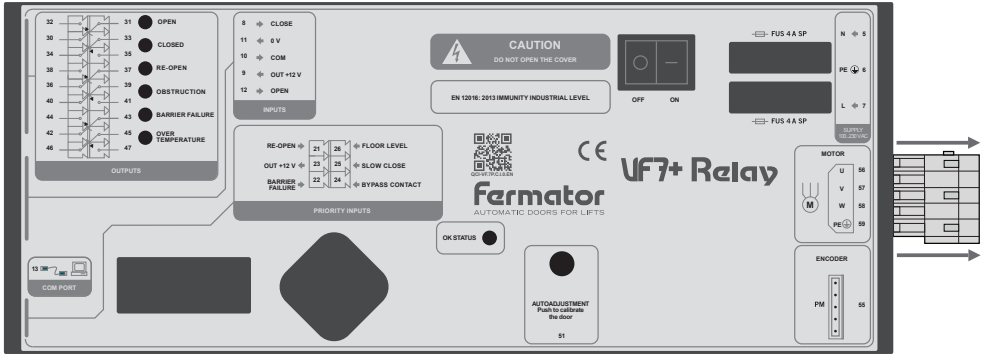




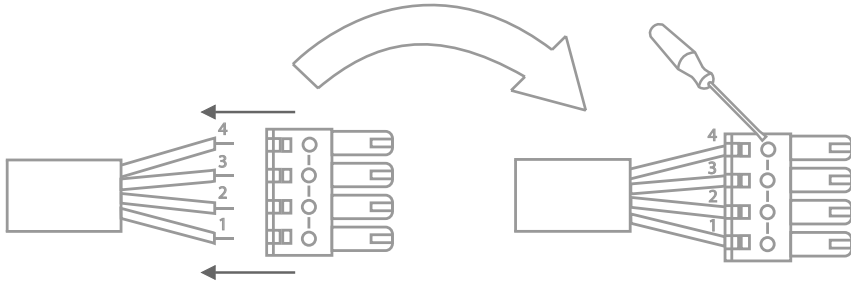
5.1

REPLACEMENT INSTRUCTIONS

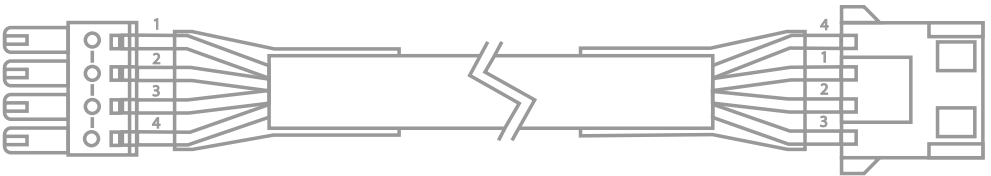




1	BROWN
2	BLACK
3	GREY
4	YELLOW AND GREEN

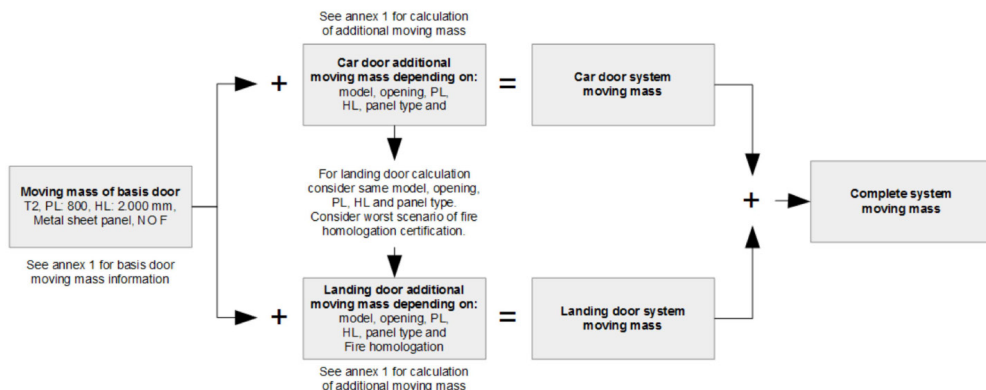


1	BROWN
2	BLACK
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4	YELLOW AND GREEN



1	BROWN
2	BLACK
3	GREY
4	YELLOW AND GREEN

Procedure calculation of moving mass



Compact product line

#	Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homology (*)	Moving mass [Kg]
0	Compact	Side	2	800	2.000	Sheet metal	F.R. E120	29,46

#	Concept	Multiplier factor
1	Difference from T2 to C2	0,02
2	Difference of 100 mm in PL	0,03
3	Difference of 100 mm in HL	0,01
4	Difference from F.R. E120 to F.R. EI60	0,16
5	Difference from F.R. E120 to F.R. EI120	0,20
6	Difference from F.R. E120 to F.R. EW60	0,12
7	Difference from F.R. E120 to F.R. E30 Russia	0,00
8	Difference from F.R. E120 to F.R. EI60 Russia	0,16
9	Difference from F.R. E120 to F.R. EI60 Ukraine	0,16
10	Difference from Sheet metal panels to Wien type vision panels	0,28
11	Difference from Sheet metal panels to Flush big vision panels	0,23
12	Difference from Metal Sheet metal to Full glass in skirting panels	0,07
13	Difference from Compact to Compact PM model	0,01
14	Difference from Compact to Compact+ PM 150 model	0,05

40/10 product line

#	Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation (*)	Moving mass [Kg]
0	40/10 PM	Side	2	800	2.000	Sheet metal	F.R. E120	31,93

#	Concept	Multiplier factor
1	Difference from T2 to T3	0,08
2	Difference from T2 to C2	0,00
3	Difference from T2 to C4	0,26
4	Difference of 100 mm in PL	0,07
5	Difference of 100 mm in HL	0,03
6	Difference from F.R. E120 to F.R. EI30	0,19
7	Difference from F.R. E120 to F.R. EI60	0,19
8	Difference from F.R. E120 to F.R. EI120	0,25
9	Difference from Sheet metal panels to Double skin panels	0,32
10	Difference from Sheet metal panels to Flush big vision panels	1,02
11	Difference from Sheet metal panels to Full glass in skirting panels	0,95
12	Difference from Sheet metal panels to Wien type vision panels	0,32
13	Difference from Sheet metal panels to Vision panels	0,61

Premium product line

#	Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation (*)	Moving mass [Kg]
0	Premium PM	Side	2	800	2.000	Sheet metal	F.R. E120	36,61

#	Concept	Multiplier factor
1	Difference from T2 to T3	0,07
2	Difference from T2 to T1	-0,17
3	Difference from T2 to C2	-0,03
4	Difference from T2 to C4	0,30
5	Difference from T2 to C6	1,15
6	Difference of 100 mm in PL	0,07
7	Difference of 100 mm in HL	0,11
8	Difference from F.R. E120 to F.R. EI30	0,18
9	Difference from F.R. E120 to F.R. EI60	0,18
10	Difference from F.R. E120 to F.R. EI120	0,24
11	Difference from Sheet metal panels to Double skin panels	0,12
12	Difference from Sheet metal panels to Flush big vision panels	0,60
13	Difference from Sheet metal panels to Full glass in skirting panels	0,60
14	Difference from Sheet metal panels to Foam filled panels	-0,17

Platinum product line

#	Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation (*)	Moving mass [Kg]
0	Platinum PM	Side	2	800	2.000	Double skin	F.R. E120	56,85

#	Concept	Multiplier factor
1	Difference from T2 to C2	0,06
2	Difference of 100 mm in PL	0,08
3	Difference of 100 mm in HL	0,07

50/11 product line

#	Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation (*)	Moving mass [Kg]
0	50/11	Side	2	800	2.000	Sheet metal	F.R. E120	33,82

#	Concept	Multiplier factor
1	Difference from T2 to T3	0,08
2	Difference from T2 to T4	0,25
3	Difference from T2 to C2	0,00
4	Difference from T2 to C4	0,26
5	Difference from T2 to C6	0,30
6	Difference from T2 to C8	0,35
7	Difference of 100 mm in PL	0,07
8	Difference of 100 mm in HL	0,03
9	Difference from F.R. E120 to F.R. EI30	0,19
10	Difference from F.R. E120 to F.R. EI60	0,19
11	Difference from F.R. E120 to F.R. EI120	0,25
12	Difference from Sheet metal panels to Double skin panels	0,32
13	Difference from Sheet metal panels to Flush big vision panels	1,02
14	Difference from Sheet metal panels to Full glass in skirting panels	0,95
15	Difference from Sheet metal panels to Wien type vision panels	0,32
16	Difference from Sheet metal panels to Vision panels	0,61

50/11 SLIM product line

#	Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation (*)	Moving mass [Kg]
0	50/11 SLIM	Side	2	800	2.000	Sheet metal	F.R. E120	30,51

#	Concept	Multiplier factor
1	Difference from T2 to T3	0,10
2	Difference from T2 to C4	0,26
3	Difference of 100 mm in PL	0,08
4	Difference of 100 mm in HL	0,05
5	Difference from Sheet metal panels to Flush big vision panels	1,05
6	Difference from Sheet metal panels to Vision panels	0,57

Example 1: Increment of PL and HL

Door to be calculated:						
Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire protection
40/10 PM	Side	2	900	2.100	Sheet metal	F.R. E120

Taking as basis(1):							
Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation	Moving mass [Kg]
40/10 PM	Side	2	800	2.000	Sheet metal	F.R. E120	31,93

Calculations:							
Difference per opening	Difference per number of panels	Difference per PL (each 100 mm)	Difference per HL (each 100 mm)	Difference per panel type	Difference per fire homologation	SUM	Moving mass
There are equals	There are equals	$31,93 \times 0,07^{(2)} = 2,23 \text{ Kg}$	$31,93 \times 0,03^{(3)} = 0,95 \text{ Kg}$	There are equals	There are equals	$2,23 + 0,95 = 3,18$	$31,93 + 3,18 = 35,11 \text{ Kg}$

1. These specifications are in the Annex 1.
2. This factor is the increment of 100 mm in PL. There is the number 4 of the second table of 40/10 PM in the Annex 1.
3. This factor is the increment of 100 mm in HL. There is the number 5 of the second table of 40/10 PM in the Annex 1.

Example 2: Difference of opening and number of panels + increment of PL and HL

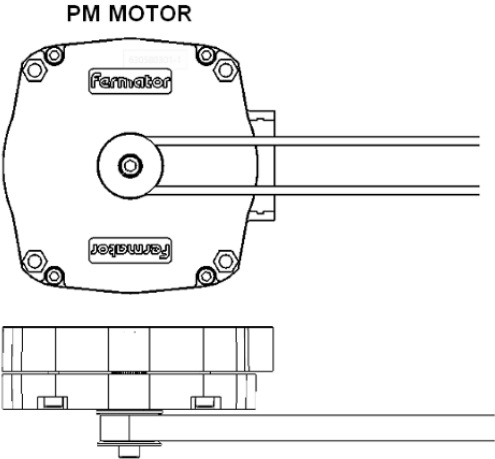
Door to be calculated:						
Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire protection
Premium PM	Side	1	800	2.000	Double skin	F.R. E120

Taking as basis(1):							
Model	Opening	Number of panels	PL [mm]	HL [mm]	Panel type	Fire homologation	Moving mass [Kg]
Premium PM	Side	2	800	2.000	Sheet metal	F.R. E120	36,61

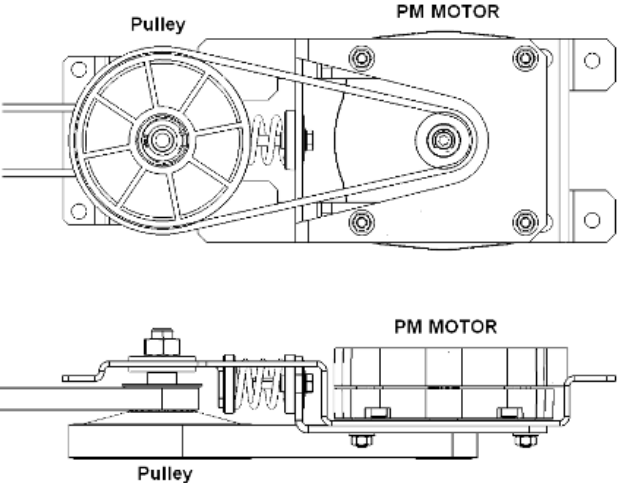
Calculations:							
Difference per opening ⁽²⁾	Difference per number of panels ⁽²⁾	Difference per PL (each 100 mm)	Difference per HL (each 100 mm)	Difference per panel type ⁽³⁾	Difference per fire homologation	SUM	Moving mass
36,61 x (-0,17) = -6,13 Kg	There are equals	There are equals	36,61 x 0,12 = 4,39 Kg	There are equals	4,39 - 6,13 = -1,74 Kg	36,61 - 1,74 = 34,87 Kg	

1. These specifications are in the Annex 1.
2. This factor is the difference between T2 (side 2 panels) to T1 (side 1 panel). There is the number 2 of the second table of Premium PM in the Annex 1.
3. This factor is the difference between sheet metal panel and double skin panel. There is the number 11 of the second table of Premium PM in the Annex 1.

Door without reduction

	<p>Gear Ratio 1:1</p>
	<p>Clutch Length 50-11 PM SLIM ==>> 0,030 m Other doors ==>> 0,052 m</p>
	<p>Pinion Perimeter 80 mm</p>

Door with reduction

	<p>Gear Ratio 1:2.67</p>
	<p>Clutch Length 0.052 m</p>
	<p>Pinion Perimeter 106 mm</p>
<p>Premium PM with manufacture date \geq 01/2017</p>	

	<p>Gear Ratio 1:2.67</p>
	<p>Clutch Length 0.052 m</p>
	<p>Pinion Perimeter 106 mm</p>
<p>Premium PM with manufacture date \geq 01/2017</p>	

	<p>Gear Ratio 1:3.21</p>
	<p>Clutch Length 0.052 m</p>
	<p>Pinion Perimeter 131 mm</p>
<p>Premium PM with manufacture date \leq 12/2016</p>	

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