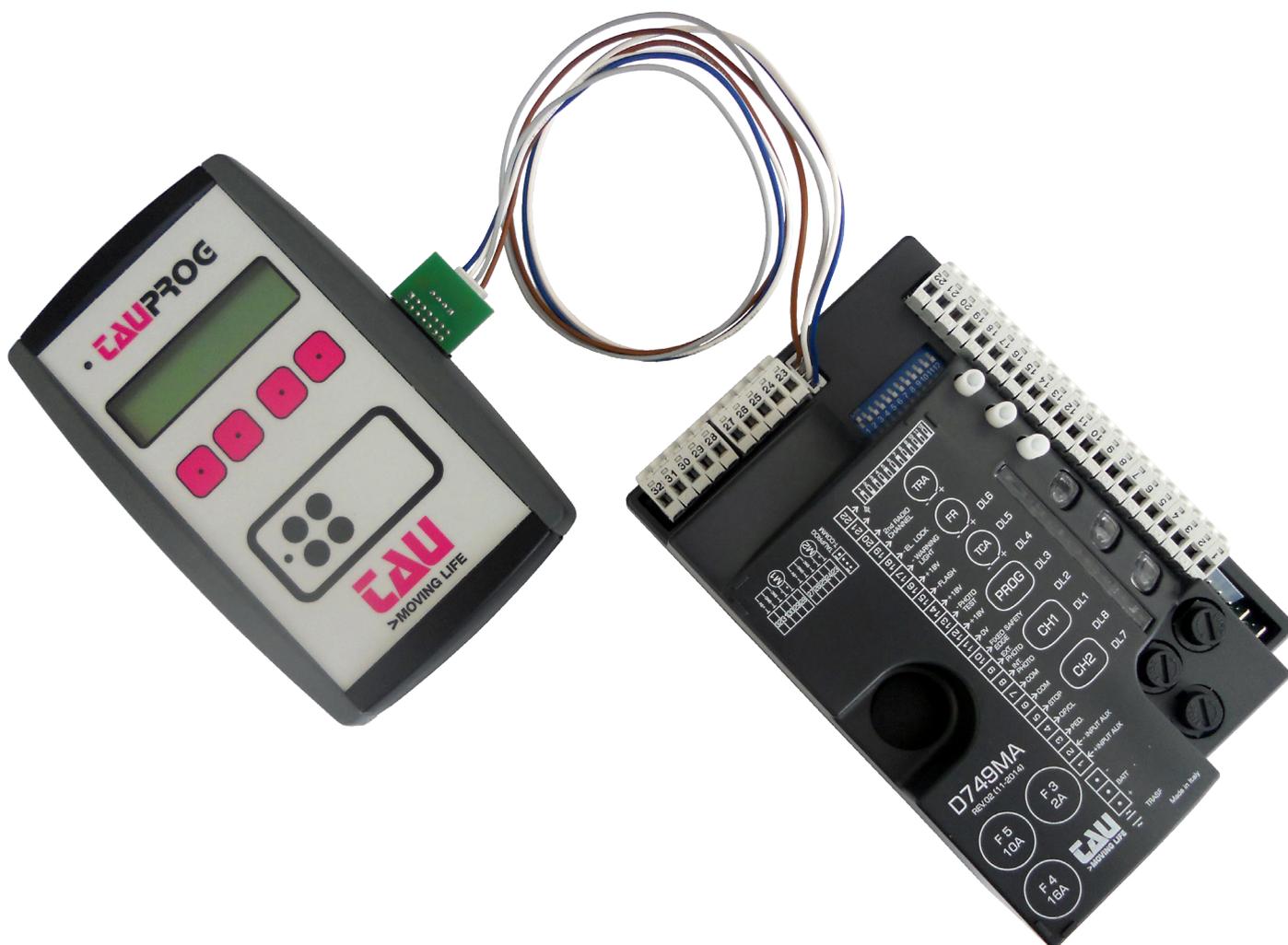


Quadri di comando in DC serie “DIAMOND”

“DIAMOND” series of DC controllers



Guida per l'installatore esperto - *Advanced Installer's Guide*



DIAMOND CONTROLLERS – PARAMETERS

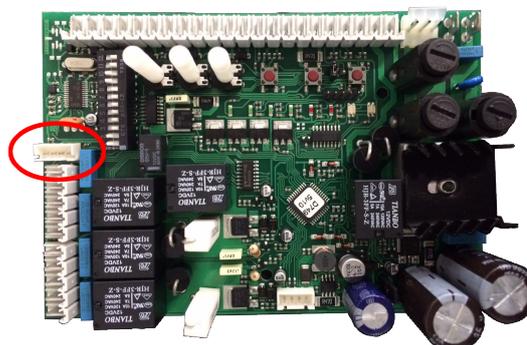
With TAU controllers of the DIAMOND Series (D749MA for Swing Gate Operators, K126MA for Sliding Gate Operators, K206MA for Automatic Barriers) most parameters may be set individually according to specific needs.

This option is exclusively intended for advanced installers trained at TAU.

At a glance:

- TAUPROG MENU TREE
- DIAMOND – OPENING PARAMETERS LAYOUT
- DIAMOND – CLOSING PARAMETERS LAYOUT
- DIAMOND PARAMETERS 2015 EN (parameters can slightly change according to the version of the control board)

Please note that, according to the version, the serial port can be located either closed to the motor wire terminals (accessible without removing the plastic shell of the controller)



Or inside the plastic shell, which must then be removed





To proceed, turn ON the controller, then plug in the TAUPROG handheld device through the serial cable supplied. The device will automatically turn ON (no batteries are necessary).

Scroll down the menu until the display shows



Then confirm.

The TAUPROG will automatically detect the controller and report its name and version



then enter the menu where parameters can be changed: important: do not exit to the previous menu level, or stored modifications will be erased from the memory; the menu has various sections:

Skip **Diagnostics** – a function which provides information on the controller status (status, number of cycles performed, error diagnostic) and scroll down to find the **Change parameters** section.



This allows to set individually the parameters as shown in the enclosed list DIAMOND PARAMETERS 2015 EN. It is divided into three sections





Once the parameters have been modified, exit the section with the third button ◀ to find Change parameters once again.



Scroll down until you find **Upload parameters**: this will allow to upload the parameters changed with **Change parameters** into the controller (a new SET-UP procedure might be necessary, please refer to the enclosed parameter list)



While scrolling down to find **Upload parameters** two sub-menu appeared: while their use is not so frequent, they could be useful in specific situations:

Save parameters allows to save into the TAUPROG memory the parameters of a gate operator, in order to use them later on another controller (useful for identical installations, for example barriers)





Restore parameters allows to recall these parameters previously saved with the Save parameters option

A green rectangular button with the text "Restore param s" in a monospace font. Below the text are four navigation icons: an upward-pointing triangle, a downward-pointing triangle, a left-pointing arrow, and a left-pointing arrow with a vertical bar at its tip.

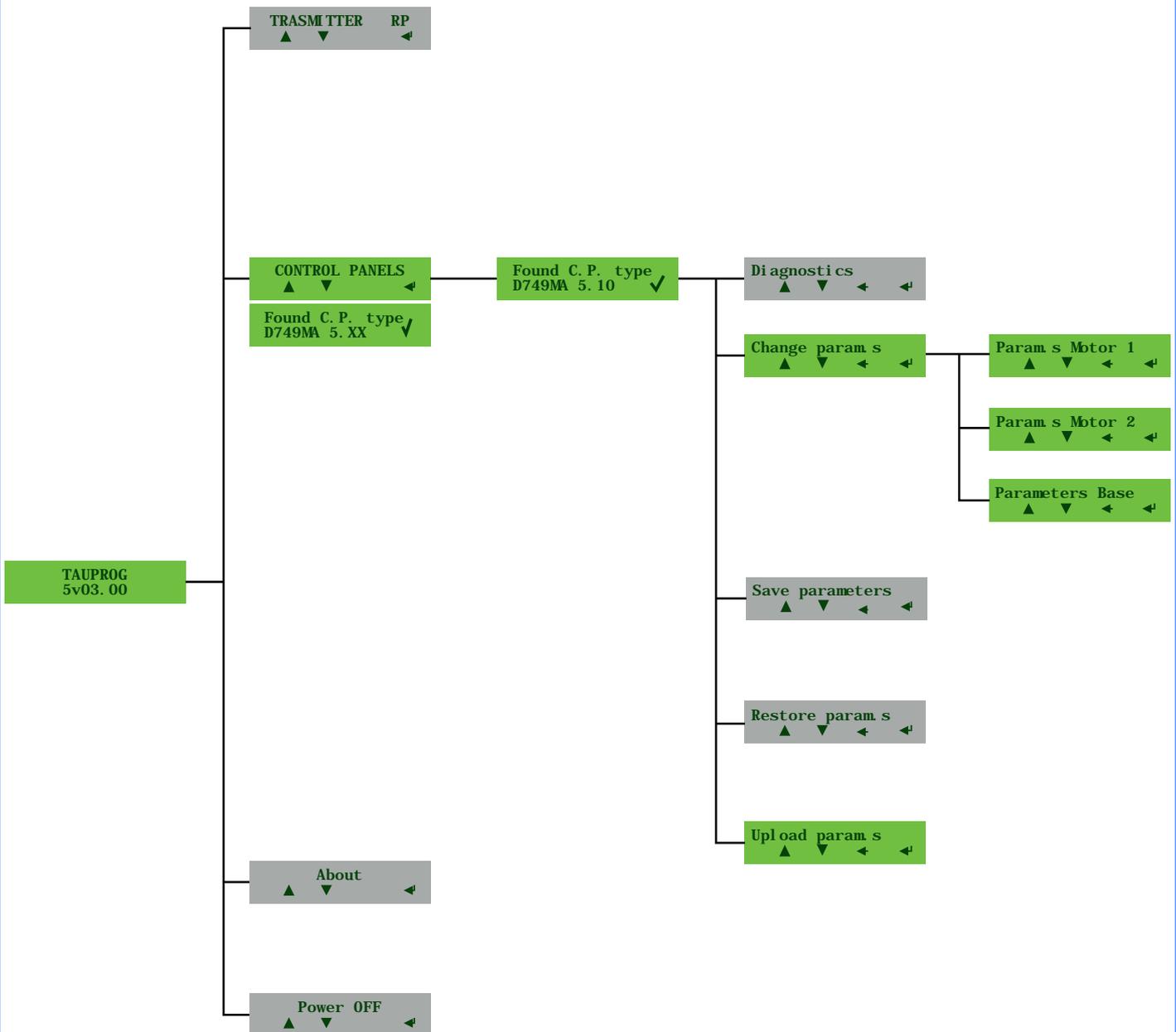
Once the TAUPROG has been connected to the second control board and after having restored (Restore parameters) the previous saved parameters (Save parameters), scroll the menu in order to send parameters to the new control board (Upload Parameters).

According to the parameters that have been changed, it could be necessary to carry out a new SET-UP procedure (stroke saving). Check the enclosed list of parameters to make it sure.

A green rectangular button with the text "Upload param s" in a monospace font. Below the text are four navigation icons: an upward-pointing triangle, a downward-pointing triangle, a left-pointing arrow, and a left-pointing arrow with a vertical bar at its tip.

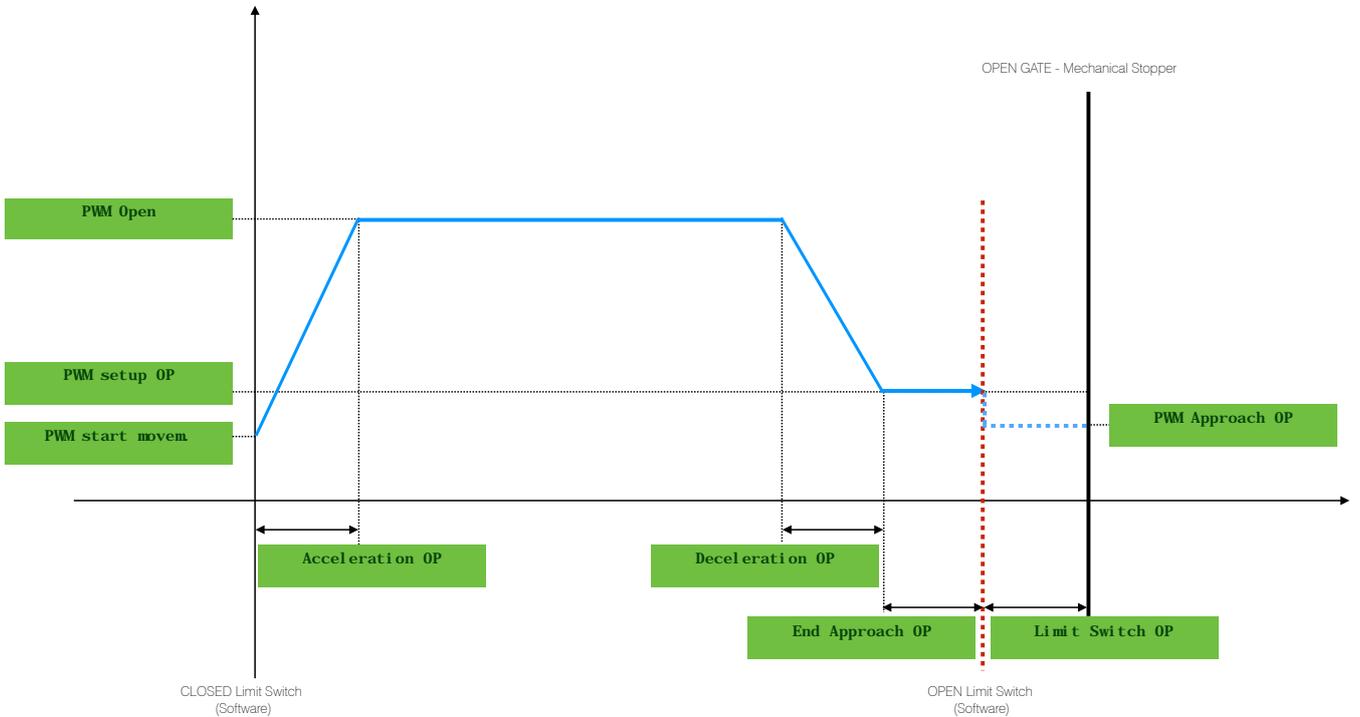


TAUPROG TREE MENU

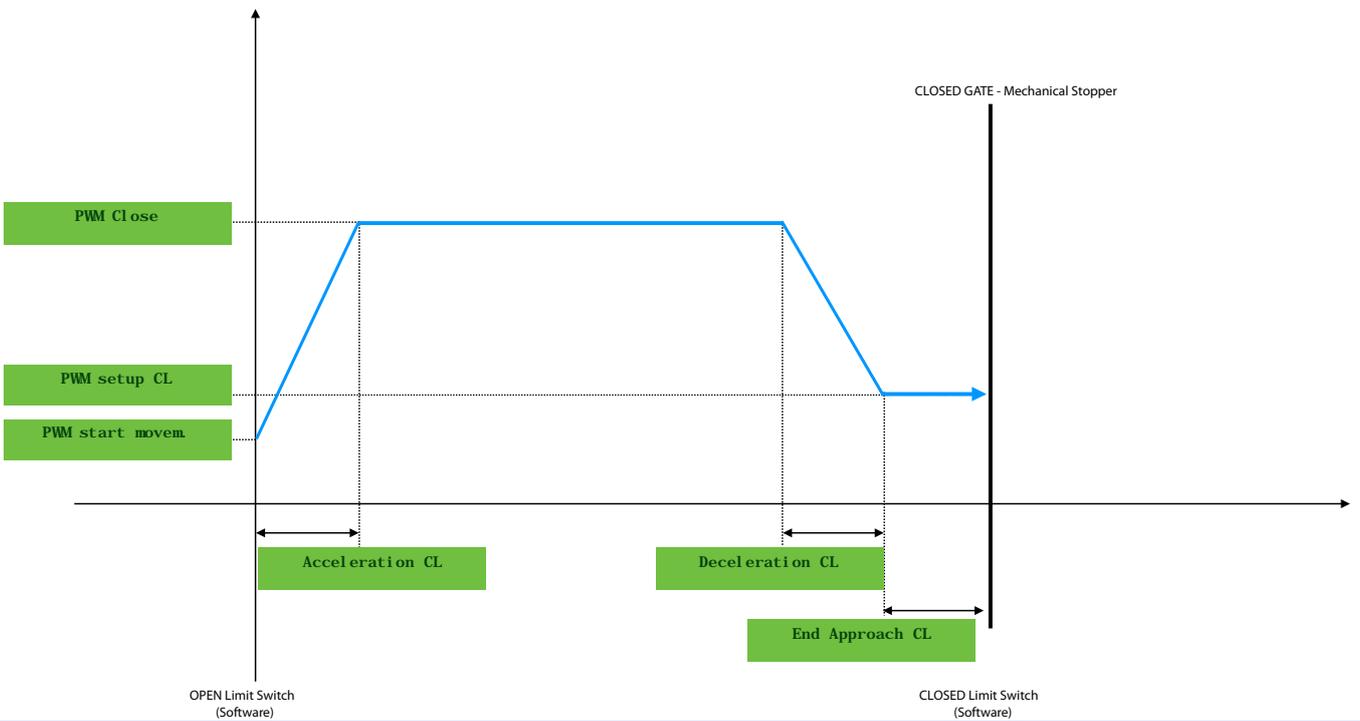




OPENING PARAMETERS



CLOSING PARAMETERS





D749MA

Update 15.06.2017 ID=1206

PARAMETERS – MOTOR 1 AND MOTOR 2

TAUPROG LABEL	DESCRIPTION	UNIT	RANGE	UPDATE MODUS
PWM Open	Opening speed <i>(max speed that the operators reaches during opening)</i>	PWM	0-1005	Up+Setup
PWM Close	Closing speed <i>(max speed that the operators reaches during closing)</i>	PWM	0-1005	Up+Setup
PWM setup OP	Default minimum opening speed during setup <i>(might be automatically increased by the controller if necessary)</i>	PWM	0-1005	Up+Setup
PWM start movem.	Starting speed (normal operation) <i>(the controller will automatically add a little acceleration when starting)</i>	PWM	0-1005	Up+Setup
PWM setup CL	Default minimum closing speed setting during setup <i>(might be automatically increased by the controller if necessary)</i>	PWM	0-1005	Up+Setup
End Approach OP	Soft Stop in opening <i>(slow approach to OPEN limit position, as a % of the total opening cycle)</i>	%	1-100	Up+Setup
End Approach CL	Soft Stop in closing <i>(slow approach to CLOSE limit position, as a % of the total opening cycle)</i>	%	1-100	Up+Setup
Limit switch OP	Limit switch in opening <i>Gap between OPEN Limit position (software) and mechanical stopper</i>	PE	0-255	Up+Setup
Acceleration OP	Soft Start Time in opening <i>Time to accelerate from min to max speed in opening</i>	100/sec	1-2000	Up+Setup
Acceleration CL	Soft Start Time in closing <i>Time to accelerate from min to max speed in closing</i>	100/sec	1-2000	Up+Setup
Deceleration OP	Soft Stop Time in opening <i>Time to decelerate from max to min speed in opening</i>	100/sec	1-2000	Up+Setup
Deceleration CL	Soft Stop Time in closing <i>Time to decelerate from max to min speed in closing</i>	100/sec	1-2000	Up+Setup
Base power OP	Obstacle detection threshold in opening <i>Higher value = less sensitivity; can be increased by the FR trimmer and the setup</i>	-	1-255	Upload
Base power CL	Obstacle detection threshold in closing <i>Higher value = less sensitivity; can be increased by the FR trimmer and the setup</i>	-	1-255	Upload
PWM Approach CL	Speed increase towards gate stopper <i>Further speed increase towards CLOSE gate stopper (only with Electro-lock)</i>	PWM	0-1005	Upload
Tmr Approach CL	Time of push against Close Limit Switch	100/sec	0-1005	Upload
Limit Obstacle	Extra offset to limit obstacle detection area <i>Additional offset (added to the limit switches) to define obstacle detection area</i>	PE	0-255	Up+Setup
Pedestrian	% of total opening in case of pedestrian opening <i>Motor 1 only</i>	%	1-100	Up+Setup

UNIT

PWM	Fraction of the motor power supply, 0 = 0 V, 1005 = max V
PE	Encoder Steps, usually 1 PE = approx. 1 mm
PEx10	Encoder Steps x 10
n/sec	Fraction of a second (for example, 100/sec = hundredths of a second)

UPDATE MODUS

Up+Setup	To activate the new parameters, once Upload has been performed, start Setup procedure;
Upload	New parameters are effective once Upload has been performed.

BASE PARAMETERS



TAUPROG LABEL	DESCRIPTION	UNIT	RANGE	UPDATE MODUS
Tmr Work timeout	Max working time (max time after which the operator will stop)	100/sec	6000-36000	Upload
Tmr Courtesy/2ch	Courtesy light activation time (or 2nd radio channel if set as toggle relay mode)	sec	1-900	Upload
Tmr Preflashing	Pre-flashing time	4/sec	1-100	Upload
Tmr wait runtime	Waiting time in runtime mode (to wait for all accessories connected to the controller to be ON after stand-by)	100/sec	1-250	Upload
Tmr CL after FOT	Quick closing after photocell (delay to close after photocell – DIP switch # 3 must be activated)	sec	1-240	Upload
Tmr unlock ES	Electro Lock activation time (before the motor starts)	10/sec	1-250	Upload
Tmr pwr on ES	Electro Lock activation time (after motor has started)	10/sec	1-250	Upload
Tmr Motor torque	Extra torque time at start	100/sec	1-250	Upload
Tmr ram blow	Hammer blow time	100/sec	1-250	Upload
Configure Output	Configuration of programmable outputs (see list below)	-	-	Upload

CONFIGURE OUTPUT

#	TAUPROG LABEL	DESCRIPTION	
A	Gate open	Output set as “Gate Open” indicator (default setting)	
	Traffic Light	Output set as Traffic Light	
	Courtesy Light	Output set as Gate Area Lighting	
	16 - 17	Electric Lock	Output set as Electric Lock
		Vandal - proof	Output set as Magnetic Lock
B	Gate open	Output set as “Gate Open” indicator	
	Traffic Light	Output set as Traffic Light	
	Courtesy Light	Output set as Gate Area Lighting	
	16 - 18	Electric Lock	Output set as Electric Lock (default setting)
		Vandal - proof	Output set as Magnetic Lock
C	Gate open	Output set as “Gate Open” indicator	
	Traffic Light	Output set as Traffic Light	
	Courtesy Light	Output set as Gate Area Lighting	
	2ch bistable	Output set as Bistable/Latching Relay	
	19 - 20	2ch monostable	Output set as Monostable/Toggle Relay (default setting)
		Electric Lock	Output set as Electric Lock
		Vandal - proof	Output set as Magnetic Lock

Dipswi tch 14- 29	Configuration of software DIP switch (see list below)
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Dipswitch 14-29

 Configuration of software DIP switch
 (see list below)

DIPSWITCH 14-29

#	TAUPROG LABEL	DESCRIPTION
14	Out 12 V aux hi	12 V Aux Output (Wire Terminals 11-12) ON = 12 V always active OFF = Output goes in Standby Mode
15	AUTO INC TA	Automatic increase of the auto-close delay time ON = Increases auto-close delay time if closing is aborted OFF = Auto-close delay time remains fixed (*)
16	pre flashing CL	Enables pre-flashing only before closing, if DIP Switch # 5 is set on OFF ON = Pre-flashing before closing activated OFF = Works as set by DIP Switch # 5
17	delay 2 motor	Disables delay of second gate leaf ON = Delay disabled OFF = Delay enabled
18	Wait Photo OP	If activated, photocells during opening will hold the operator in pause ON = FOTI will trigger operator pause OFF: Normal operation
19	Slow Reverse	Allows a soft reverse after photocells are activated (useful for long leaves) ON: Slow reverse activated OFF: Normal operation
20	MANUAL command	Dead man's switch ON: Dead man's switch activated OFF: Normal operation
21	Test Cyclic	Performs a cyclic test of the operator ON: Cyclic test running (**) OFF: Normal operation
22	Fototest mode	Photo-cells monitoring feature only when starting from fully closed or fully open (instead of at every start input) ON = Monitoring mode activated OFF = Normal operation
23	Safety Switch	Disables realignment procedure after manual release
24	FOTE CL once	ON = Enables the automatic closing after the intervention of the external photocell OFF = Disables the automatic closing
25	OP/CL single	ON = Enables the single OPEN and CLOSE controls: the OP/CL input becomes OPEN, the PEDESTRIAN control becomes CLOSE OFF = Disables the single OPEN and CLOSE controls
26	TCA range	ON = Sets the range of the TCA trimmer from 0 to 12 seconds OFF = Sets the range of the TCA trimmer from 0 to 120 seconds
27	Di s. Obst. OP	ON = Disables the obstacle detection during the OPENING phase OFF = Enables the obstacle detection during the OPENING phase
28	not used	
29	not used	

(*): Auto-close delay time will increase in any case after 5 failed aborted closing attempts

 (**): Use **Tmr** Courtesy/2Ch Base Parameter to set the Cyclic test time



K126MA

Update 15.06.2017 ID=110B

PARAMETERS MOTOR 1

TAUPROG LABEL	DESCRIPTION	UNIT	RANGE	UPDATE MODUS
PWM Open	Opening speed <i>(max speed that the operators reaches during opening)</i>	PWM	0-1005	Up+Setup
PWM Close	Closing speed <i>(max speed that the operators reaches during closing)</i>	PWM	0-1005	Up+Setup
PWM setup OP	Default minimum opening speed during setup <i>(might be automatically increased by the controller if necessary)</i>	PWM	0-1005	Up+Setup
PWM start movem.	Starting speed (normal operation) <i>(the controller will automatically add a little acceleration when starting)</i>	PWM	0-1005	Up+Setup
PWM setup CL	Default minimum closing speed setting during setup <i>(might be automatically increased by the controller if necessary)</i>	PWM	0-1005	Up+Setup
End Approach OP	Soft Stop in opening <i>(slow approach to OPEN limit position, as a % of the total opening cycle)</i>	PEx10	1-100	Up+Setup
End Approach CL	Soft Stop in closing <i>(slow approach to CLOSE limit position, as a % of the total opening cycle)</i>	PEx10	1-100	Up+Setup
Limit switch OP	Limit switch in opening <i>Gap between OPEN Limit position (software) and mechanical stopper</i>	PE	0-255	Up+Setup
Acceleration OP	Soft Start Time in opening <i>Time to accelerate from min to max speed in opening</i>	100/sec	1-2000	Up+Setup
Acceleration CL	Soft Start Time in closing <i>Time to accelerate from min to max speed in closing</i>	100/sec	1-2000	Up+Setup
Deceleration OP	Soft Stop Time in opening <i>Time to decelerate from max to min speed in opening</i>	100/sec	1-2000	Up+Setup
Deceleration CL	Soft Stop Time in closing <i>Time to decelerate from max to min speed in closing</i>	100/sec	1-2000	Up+Setup
Base power OP	Obstacle detection threshold in opening <i>Higher value = less sensitivity; can be increased by the FR trimmer and the setup</i>	-	1-255	Upload
Base power CL	Obstacle detection threshold in closing <i>Higher value = less sensitivity; can be increased by the FR trimmer and the setup</i>	-	1-255	Upload
PWM Approach CL	Speed increase/decrease towards gate stopper – closing <i>Works as set by software DIP Switch # 17</i>	PWM	0-1005	Upload
PWM Approach OP	Speed increase/decrease towards gate stopper – opening <i>Works as set by software DIP Switch # 17</i>	PWM	0-1005	Upload
Tmr Approach OP	Time of push against Open Limit Switch	100/sec	0-1005	Upload
Tmr Approach CL	Time of push against Close Limit Switch	100/sec	0-1005	Upload
Limit Obstacle	Extra offset to limit obstacle detection area <i>Additional offset (added to the limit switches) to define obstacle detection area</i>	PE	0-255	Up+Setup
Pedestrian	% of total opening in case of pedestrian opening	%	1-100	Up+Setup

UNIT

PWM	Fraction of the motor power supply, 0 = 0 V, 1005 = max V
PE	Encoder Steps, usually 1 PE = approx. 1 mm
PEx10	Encoder Steps x 10
n/sec	Fraction of a second (for example, 100/sec = hundredths of a second)

UPDATE MODUS

Up+Setup	To activate the new parameters, once Upload has been performed, start Setup procedure;
Upload	New parameters are effective once Upload has been performed.

BASE PARAMETERS



TAUPROG LABEL	DESCRIPTION	UNIT	RANGE	UPDATE MODUS
Tmr Work timeout	Max working time (max time after which the operator will stop)	100/sec	6000-36000	Upload
Tmr Courtesy/2ch	Courtesy light activation time (or 2nd radio channel if set as toggle relay mode)	sec	1-900	Upload
Tmr Preflashing	Pre-flashing time	4/sec	1-100	Upload
Tmr wait runtime	Waiting time in runtime mode (to wait for all accessories connected to the controller to be ON after stand-by)	100/sec	1-250	Upload
Tmr CL after FOT	Quick closing after photocell (delay to close after photocell – DIP switch # 3 must be activated)	sec	1-240	Upload
Tmr unlock ES	Electro Lock activation time (before the motor starts)	10/sec	1-250	Upload
Tmr pwr on ES	Electro Lock activation time (after motor has started)	10/sec	1-250	Upload
Tmr Back Jump	Time of Back Jump from CLOSE limit switch	100/sec	1-250	Upload
Tmr Motor torque	Extra torque time at start	100/sec	1-250	Upload
Configure Output	Configuration of programmable outputs (see list below)	-	-	Upload

CONFIGURE OUTPUT

#	TAUPROG LABEL	DESCRIPTION	
A	Gate open	Output set as “Gate Open” indicator (default setting)	
	Traffic Light	Output set as Traffic Light	
	Courtesy Light	Output set as Gate Area Lighting	
	16 - 17	Electric Lock	Output set as Electric Lock
		Vandal - proof	Output set as Magnetic Lock
B	Gate open	Output set as “Gate Open” indicator	
	Traffic Light	Output set as Traffic Light	
	Courtesy Light	Output set as Gate Area Lighting (default setting)	
	16 - 18	Electric Lock	Output set as Electric Lock
		Vandal - proof	Output set as Magnetic Lock
C	Gate open	Output set as “Gate Open” indicator	
	Traffic Light	Output set as Traffic Light	
	Courtesy Light	Output set as Gate Area Lighting	
	19 - 20	2ch bi stable	Output set as Bistable/Latching Relay
		2ch monostable	Output set as Monostable/Toggle Relay (default setting)
	Electric Lock	Output set as Electric Lock	
	Vandal - proof	Output set as Magnetic Lock	

Di pswi tch 14- 29	Configuration of software DIP switch (see list below)
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Dipswitch 14-29

 Configuration of software DIP switch
 (see list below)

DIPSWITCH 14-29

#	TAUPROG LABEL	DESCRIPTION
14	Out 12 V aux hi	12 V Aux Output (Wire Terminals 11-12) ON = 12 V always active OFF = Output goes in Standby Mode
15	AUTO INC TA	Automatic increase of the auto-close delay time ON = Increases auto-close delay time if closing is aborted OFF = Auto-close delay time remains fixed (*)
16	pre flashing CL	Enables pre-flashing only before closing, if DIP Switch # 5 is set on OFF ON = Pre-flashing before closing activated OFF = Works as set by DIP Switch # 5
17	Push Limit Sw	Sets out the intervention logic of parameters PWM Approach CL and PWM Approach OP ON = Speed towards the gate stopper will be increased by the set value OFF = Speed towards the stopper will be decreased by the set value
18	Wait Photo OP	If activated, photocells during opening will hold the operator in pause ON = FOTI will trigger operator pause OFF: Normal operation
19	Slow Reverse	Allows a soft reverse after photocells are activated (useful for long leaves) ON: Slow reverse activated OFF: Normal operation
20	MANUAL command	Dead man's switch ON: Dead man's switch activated OFF: Normal operation
21	Test Cyclic	Performs a cyclic test of the operator ON: Cyclic test running (**) OFF: Normal operation
22	Fototest mode	Photo-cells monitoring feature only when starting from fully closed or fully open (instead of at every start input) ON = Monitoring mode activated OFF = Normal operation
23	Safety Switch	Disables realignment procedure after manual release ON = Realignment procedure disabled OFF = Normal operation
24	FOTE CL once	ON = Closes immediately after the intervention of the external photocell, without waiting for the complete opening OFF = disables such function
25	OP/CL single	ON = Enables the use of the OP/CL input only with the "OPEN" function and of the PEDESTRIAN input only with the "CLOSE" function OFF = standard functions of the OP/CL and PEDESTRIAN inputs
26	TCA range	ON = Sets the range of the TCA trimmer from 0 to 12 seconds OFF = Sets the range of the TCA trimmer from 0 to 120 seconds
27	Di s. Obst. OP	ON = Disables the obstacle detection during the OPENING phase OFF = Enables the obstacle detection during the OPENING phase
28	not used	
29	not used	

(*): Auto-close delay time will increase in any case after 5 failed aborted closing attempts

 (**): Use **Tmr Courtesy/2Ch** Base Parameter to set the Cyclic test time



K206MA

Update 15.03.2017 ID=110D

PARAMETERS – MOTOR 1

TAUPROG LABEL	DESCRIPTION	UNIT	RANGE	UPDATE MODUS
PWM Open	Opening speed <i>(max speed that the operators reaches during opening)</i>	PWM	0-1005	Up+Setup
PWM Close	Closing speed <i>(max speed that the operators reaches during closing)</i>	PWM	0-1005	Up+Setup
PWM setup OP	Default minimum opening speed during setup <i>(might be automatically increased by the controller if necessary)</i>	PWM	0-1005	Up+Setup
PWM start movem.	Starting speed (normal operation) <i>(the controller will automatically add a little acceleration when starting)</i>	PWM	0-1005	Up+Setup
PWM setup CL	Default minimum closing speed setting during setup <i>(might be automatically increased by the controller if necessary)</i>	PWM	0-1005	Up+Setup
End Approach OP	Soft Stop in opening <i>(slow approach to OPEN limit position, as a % of the total opening cycle)</i>	%	1-100	Up+Setup
End Approach CL	Soft Stop in closing <i>(slow approach to CLOSE limit position, as a % of the total opening cycle)</i>	%	1-100	Up+Setup
Limit switch OP	Limit switch in opening <i>Gap between OPEN Limit position (software) and mechanical stopper</i>	PE	0-255	Up+Setup
Acceleration OP	Soft Start Time in opening <i>Time to accelerate from min to max speed in opening</i>	100/sec	1-2000	Up+Setup
Acceleration CL	Soft Start Time in closing <i>Time to accelerate from min to max speed in closing</i>	100/sec	1-2000	Up+Setup
Deceleration OP	Soft Stop Time in opening <i>Time to decelerate from max to min speed in opening</i>	100/sec	1-2000	Up+Setup
Deceleration CL	Soft Stop Time in closing <i>Time to decelerate from max to min speed in closing</i>	100/sec	1-2000	Up+Setup
Base power OP	Obstacle detection threshold in opening <i>Higher value = less sensitivity; can be increased by the FR trimmer and the setup</i>	-	1-255	Upload
Base power CL	Obstacle detection threshold in closing <i>Higher value = less sensitivity; can be increased by the FR trimmer and the setup</i>	-	1-255	Upload
PWM Approach CL	Speed increase/decrease towards boom stopper – closing <i>Works as set by software DIP Switch # 17</i>	PWM	0-1005	Upload
PWM Approach OP	Speed increase/decrease towards boom stopper – opening <i>Works as set by software DIP Switch # 17</i>	PWM	0-1005	Upload
Tmr Approach CL	Time of push against Close Limit Switch <i>(DIP switch # 7 must be set in ON)</i>	100/sec	0-1005	Upload
Limit Obstacle	Extra offset to limit obstacle detection area <i>Additional offset (added to the limit switches) to define obstacle detection area</i>	PE	0-255	Up+Setup

UNIT

PWM	Fraction of the motor power supply, 0 = 0 V, 1005 = max V
PE	Encoder Steps, usually 11 PE = approx. 1 degree
PEx10	Encoder Steps x 10
n/sec	Fraction of a second (for example, 100/sec = hundredths of a second)

UPDATE MODUS

Up+Setup	To activate the new parameters, once Upload has been performed, start Setup procedure;
Upload	New parameters are effective once Upload has been performed.

BASE PARAMETERS

TAUPROG LABEL	DESCRIPTION	UNIT	RANGE	UPDATE MODUS
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Tmr Work timeout	Max working time (max time after which the operator will stop)	100/sec	6000-36000	Upload
Tmr Courtesy/2ch	Courtesy light activation time (or 2nd radio channel if set as toggle relay mode)	sec	1-900	Upload
Tmr Preflashing	Pre-flashing time	4/sec	1-100	Upload
Tmr wait runtime	Waiting time in runtime mode (to wait for all accessories connected to the controller to be ON after stand-by)	100/sec	1-250	Upload
Tmr CL after FOT	Quick closing after photocell (delay to close after photocell – DIP switch # 3 must be activated)	sec	1-240	Upload
Tmr Motor torque	Extra torque time at start	100/sec	1-250	Upload
Tmr unlock ES	Electro Lock activation time (before the motor starts)	10/sec	1-250	Upload
Tmr pwr on ES	Electro Lock activation time (after motor has started)	10/sec	1-250	Upload
Configure Output	Configuration of programmable outputs (see list below)	-	-	Upload

CONFIGURE OUTPUT

#	TAUPROG LABEL	DESCRIPTION
16 - 17	Gate open	Output set as "Gate Open" indicator
	Traffic Light	Output set as Traffic Light
	Courtesy Light	Output set as Gate Area Lighting
	Vandal - proof	Output set as Magnetic Lock (default setting)
	Led Bar Traf. 1	"Traffic light led bar" function (RED). When the automation is closed, leds flash. During manoeuvres, the flash is synchronized with the flashing light function. When the automation is OPEN, the exit is OFF
16 - 18	LED Bar Flash	Output set as Boom LED Flashing (default setting)
	LED Bar Fix	Output set as Boom LED Fixed
	Vandal - proof	Output set as Magnetic Lock
19 - 20	Gate open	Output set as "Gate Open" indicator
	Traffic Light	Output set as Traffic Light
	Courtesy Light	Output set as Gate Area Lighting
	2ch bistable	Output set as Bistable/Latching Relay
	2ch monostable	Output set as Monostable/Toggle Relay (default setting)
	Electric Lock	"Electric lock" function. Activated at the beginning of a manoeuvre of the automation, previously closed. It can be set through standard parameters "Tmr unlock ES" and "Tmr pwr on ES". NA contact, max 1A
	Vandal - proof	Output set as Magnetic Lock
Led Bar Traf. 1	"Traffic light led bar" Function (GREEN). If the automation is OPEN, the exit is ON. It is OFF in all other cases.	

Dipswit ch 14- 21	Configuration of software DIP switch (see list below)
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Dipswitch 14-21

 Configuration of software DIP switch
 (see list below)

DIPSWITCH 14-21

#	TAUPROG LABEL	DESCRIPTION
14	Out 12 V aux hi	12 V Aux Output (Wire Terminals 11-12) ON = 12 V always active OFF = Output goes in Standby Mode
15	AUTO INC TA	Automatic increase of the auto-close delay time ON = Increases auto-close delay time if closing is aborted OFF = Auto-close delay time remains fixed (*)
16	pre flashing CL	Enables pre-flashing only before closing, if DIP Switch # 5 is set on OFF ON = Pre-flashing before closing activated OFF = Works as set by DIP Switch # 5
17	Push Limit Sw	Sets out the intervention logic of parameters PWM Approach CL and PWM Approach OP ON = Speed towards the boom stopper will be increased by the set value OFF = Speed towards the stopper will be decreased by the set value
18	Fototest mode	Photo-cells monitoring feature only when starting from fully closed or fully open (instead of at every start input) ON = Monitoring mode activated OFF = Normal operation
19	Slow Reverse	Allows a soft reverse after photocells are activated (useful for long leaves) ON: Slow reverse activated OFF: Normal operation
20	Safety Switch	Disables realignment procedure after manual release ON = Realignment procedure disabled OFF = Normal operation
21	Test Cyclic	Performs a cyclic test of the operator ON: Cyclic test running (**) OFF: Normal operation
22		
23		
24		
25		
26	TCA range	ON = Sets the range of the TCA trimmer from 0 to 12 seconds OFF = Sets the range of the TCA trimmer from 0 to 120 seconds
27	Dis. Obst. OP	ON = Disables the obstacle detection during the OPENING phase OFF = Enables the obstacle detection during the OPENING phase
28		
29		

(*): Auto-close delay time will increase in any case after 5 failed aborted closing attempts

 (**): Use **Tmr Courtesy/2Ch** Base Parameter to set the Cyclic test time