

# D749MA

Update 22.05.2015 ID=1203

## 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
Limit switch CL	Limit switch in closing <i>Gap between CLOSE 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
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 <i>(max time after which the operator will stop)</i>	100/sec	6000-36000	Upload
Tmr Courtesy/2ch	Courtesy light activation time <i>(or 2<sup>nd</sup> radio channel if set as toggle relay mode )</i>	sec	1-900	Upload
Tmr Preflashing	Pre-flashing time	4/sec	1-100	Upload
Tmr wait runtime	Waiting time in runtime mode <i>(to wait for all accessories connected to the controller to be ON after stand-by)</i>	100/sec	1-250	Upload
Tmr CL after FOT	Quick closing after photocell <i>(delay to close after photocell – DIP switch # 3 must be activated)</i>	sec	1-240	Upload
Tmr unlock ES	Electro Lock activation time <i>(before the motor starts)</i>	10/sec	1-250	Upload
Tmr Pwr on ES	Electro Lock activation time <i>(after motor has started)</i>	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 <i>(see list below)</i>	-	-	Upload

#	TAUPROG LABEL	DESCRIPTION
16-17	Gate open	<b>Output set as “Gate Open” indicator (default setting)</b>
	Traffic Light	Output set as Traffic Light
	Courtesy Light	Output set as Gate Area Lighting
	Electric Lock	Output set as Electric Lock
	Vandal-Proof	Output set as Magnetic Lock
16-18	Gate open	Output set as “Gate Open” indicator
	Traffic Light	Output set as Traffic Light
	Courtesy Light	Output set as Gate Area Lighting
	Electric Lock	<b>Output set as Electric Lock (default setting)</b>
	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	<b>Output set as Monostable/Toggle Relay (default setting)</b>
	Electric Lock	Output set as Electric Lock
	Vandal-Proof	Output set as Magnetic Lock

<b>Dipswitch 14-29</b>	Configuration of software DIP switch <i>(see list below)</i>
------------------------	---

#	TAUPROG LABEL	DESCRIPTION
14	Out 12 V aux hi	12 V Aux Output (Wire Terminals 11-12) <i>ON = 12 V always active</i> <span style="float: right;"><i>OFF = Output goes in Standby Mode</i></span>
15	AUTO INC TA	Automatic increase of the auto-close delay time <i>ON = Increases auto-close delay time if closing is aborted</i> <span style="float: right;"><i>OFF = Auto-close delay time remains fixed (*)</i></span>
16	Pre flashing CL	Enables pre-flashing only before closing, if DIP Switch # 5 is set on OFF <i>ON = Pre-flashing before closing activated</i> <span style="float: right;"><i>OFF = Works as set by DIP Switch # 5</i></span>
17	delay 2 motor	Disables delay of second gate leaf <i>ON = Delay disabled</i> <span style="float: right;"><i>OFF = Delay enabled</i></span>
18	Wait Photo OP	If activated, photocells during opening will hold the operator in pause <i>ON = FOTI will trigger operator pause</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
19	Slow Reverse	Allows a soft reverse after photocells are activated (useful for long leaves) <i>ON: Slow reverse activated</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
20	MANUAL command	Dead man's switch <i>ON: Dead man's switch activated</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
21	Test Cyclic	Performs a cyclic test of the operator <i>ON: Cyclic test running (**)</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
22	Fototest mode	Photo-cells monitoring feature only when starting from fully closed or fully open (instead of at every start input) <i>ON = Monitoring mode activated</i> <span style="float: right;"><i>OFF = Normal operation</i></span>
23	Safety Switch	Disables realignment procedure after manual release
24	not used	
25	not used	
26	not used	
27	not used	
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 22.05.2015 ID=1108

## PARAMETERS

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
Limit switch CL	Limit switch in closing <i>Gap between CLOSE 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 <i>(max time after which the operator will stop)</i>	100/sec	6000-36000	Upload
Tmr Courtesy/2ch	Courtesy light activation time <i>(or 2<sup>nd</sup> radio channel if set as toggle relay mode )</i>	sec	1-900	Upload
Tmr Preflashing	Pre-flashing time	4/sec	1-100	Upload
Tmr wait runtime	Waiting time in runtime mode <i>(to wait for all accessories connected to the controller to be ON after stand-by)</i>	100/sec	1-250	Upload
Tmr CL after FOT	Quick closing after photocell <i>(delay to close after photocell – DIP switch # 3 must be activated)</i>	sec	1-240	Upload
Tmr unlock ES	Electro Lock activation time <i>(before the motor starts)</i>	10/sec	1-250	Upload
Tmr Pwr on ES	Electro Lock activation time <i>(after motor has started)</i>	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 <i>(see list below)</i>	-	-	Upload

#	TAUPROG LABEL	DESCRIPTION
A  16-17	Gate open	<b>Output set as “Gate Open” indicator (default setting)</b>
	Traffic Light	Output set as Traffic Light
	Courtesy Light	Output set as Gate Area Lighting
	Electric Lock	Output set as Electric Lock
	Vandal-Proof	Output set as Magnetic Lock
B  16-18	Gate open	Output set as “Gate Open” indicator
	Traffic Light	Output set as Traffic Light
	Courtesy Light	<b>Output set as Gate Area Lighting (default setting)</b>
	Electric Lock	Output set as Electric Lock
	Vandal-Proof	Output set as Magnetic Lock
C  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	<b>Output set as Monostable/Toggle Relay (default setting)</b>
	Electric Lock	Output set as Electric Lock
	Vandal-Proof	Output set as Magnetic Lock

<b>Dipswitch 14-29</b>	Configuration of software DIP switch <i>(see list below)</i>
------------------------	---

#	TAUPROG LABEL	DESCRIPTION
14	Out 12 V aux hi	12 V Aux Output (Wire Terminals 11-12) <i>ON = 12 V always active</i> <span style="float: right;"><i>OFF = Output goes in Standby Mode</i></span>
15	AUTO INC TA	Automatic increase of the auto-close delay time <i>ON = Increases auto-close delay time if closing is aborted</i> <span style="float: right;"><i>OFF = Auto-close delay time remains fixed (*)</i></span>
16	Pre flashing CL	Enables pre-flashing only before closing, if DIP Switch # 5 is set on OFF <i>ON = Pre-flashing before closing activated</i> <span style="float: right;"><i>OFF = Works as set by DIP Switch # 5</i></span>
17	Push Limit Sw	Sets out the intervention logic of parameters <b>PWM Approach CL</b> and <b>PWM Approach OP</b> <i>ON = Speed towards the gate stopper will be increased by the set value</i> <span style="float: right;"><i>OFF = Speed towards the stopper will be decreased by the set value</i></span>
18	Wait Photo OP	If activated, photocells during opening will hold the operator in pause <i>ON = FOTI will trigger operator pause</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
19	Slow Reverse	Allows a soft reverse after photocells are activated (useful for long leaves) <i>ON: Slow reverse activated</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
20	MANUAL command	Dead man's switch <i>ON: Dead man's switch activated</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
21	Test Cyclic	Performs a cyclic test of the operator <i>ON: Cyclic test running (**)</i> <span style="float: right;"><i>OFF: Normal operation</i></span>
22	Fototest mode	Photo-cells monitoring feature only when starting from fully closed or fully open (instead of at every start input) <i>ON = Monitoring mode activated</i> <span style="float: right;"><i>OFF = Normal operation</i></span>
23	Safety Switch	Disables realignment procedure after manual release <i>ON = Realignment procedure disabled</i> <span style="float: right;"><i>OFF = Normal operation</i></span>
24	not used	
25	not used	
26	not used	
27	not used	
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 22.05.2015 ID=1107

## PARAMETERS

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
Limit switch CL	Limit switch in closing <i>Gap between CLOSE 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
Tmr Work timeout	Max working time <i>(max time after which the barrier will stop)</i>	100/sec	6000-36000	Upload
Tmr Courtesy/2ch	Courtesy light activation time <i>(or 2<sup>nd</sup> radio channel if set as toggle relay mode )</i>	sec	1-900	Upload
Tmr Preflashing	Pre-flashing time	4/sec	1-100	Upload
Tmr wait runtime	Waiting time in runtime mode <i>(to wait for all accessories connected to the controller to be ON after stand-by)</i>	100/sec	1-250	Upload
Tmr CL after FOT	Quick closing after photocell <i>(delay to close after photocell - dip-switch # 3 must be activated)</i>	sec	1-240	Upload
Tmr Motor torque	Extra torque time at start	100/sec	1-250	Upload
Configure Output	Configuration of programmable outputs <i>(see list below)</i>	-	-	Upload

#	TAUPROG LABEL	DESCRIPTION
A	Gate open	Output set as "Gate Open" indicator
	Traffic Light	Output set as Traffic Light
	Courtesy Light	Output set as Gate Area Lighting
16-17	Vandal-Proof	<b>Output set as Magnetic Lock (default setting)</b>
B	LED Bar Flash	<b>Output set as Boom LED Flashing (default setting)</b>
	LED Bar Fix	Output set as Boom LED Fixed
16-18	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 bistable	Output set as Bistable/Latching Relay
	2ch monostable	<b>Output set as Monostable/Toggle Relay (default setting)</b>
	Vandal-Proof	Output set as Magnetic Lock



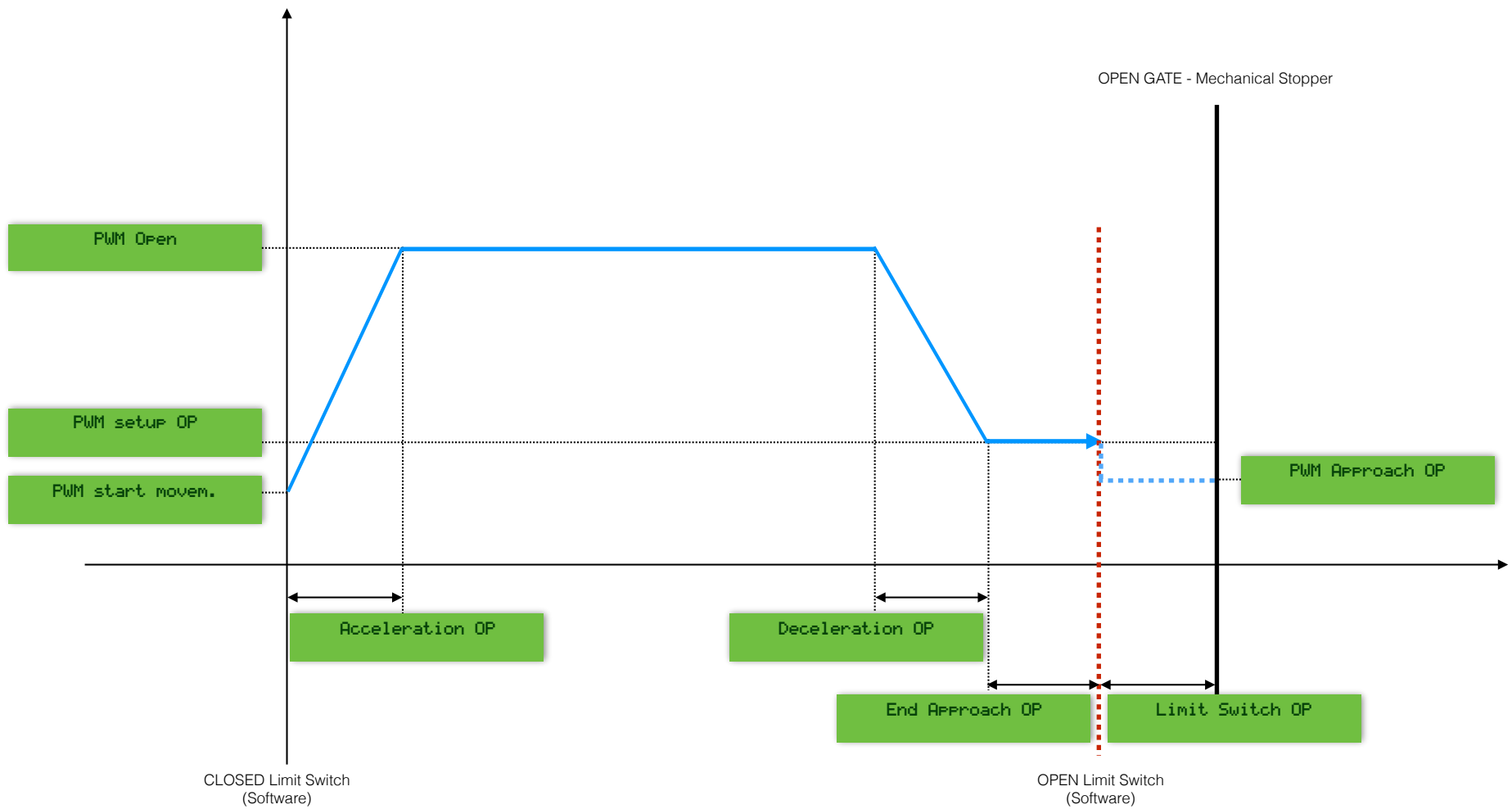
<b>Dipswitch 14-21</b>	Configuration of software DIP switch <i>(see list below)</i>
------------------------	---

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

*(\*)*: 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

# OPENING PARAMETERS



# CLOSING PARAMETERS

