

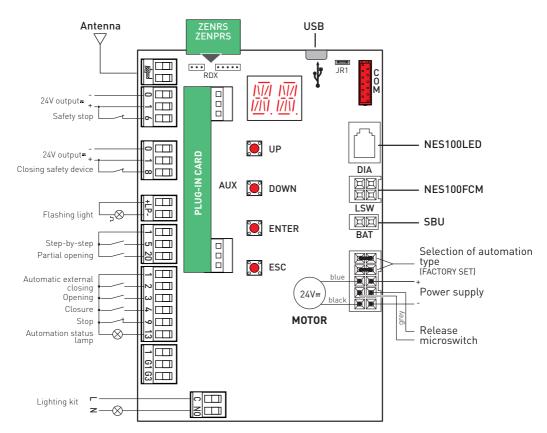


Ditec CS12M

Control panel installation manual for

Ditec NEOS+ automations

(Translation of the original instructions)



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Key

This symbol indicates instructions or notes regarding safety, to which special attention must be paid.

This symbol indicates useful information for the correct functioning of the product.

Factory settings

1. General safety precautions



Failure to observe the information given in this manual may lead to personal injury or damage to the equipment. Keep these instructions for future reference

This installation manual is intended for qualified personnel only.

Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with the present standards.

This product must only be used for the specific purpose for which it was designed.

Any other use is to be considered improper and therefore dangerous. The manufacturer cannot be held responsible for any damage caused by improper, incorrect or unreasonable use.

Read the instructions carefully before installing the product. Incorrect installation could be dangerous.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger.

Before installing the product, make sure it is in perfect condition.

Do not install the product in explosive areas and atmospheres: the presence of inflammable gas or fumes represents a serious safety hazard.

The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account the applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the automation. Before connecting the power supply, make sure the plate data correspond to those of the mains power supply. An omnipolar disconnection switch with a contact opening distance of at least 3 mm must be fitted on the mains supply.

Check that there is an adequate residual current circuit breaker and a suitable overcurrent cut-out upstream of the electrical installation in accordance with Good Working Methods and with the laws in force.

When requested, connect the automation to an effective earthing system that complies with current safety standards.

During installation, maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts.

The electronic parts must be handled using earthed antistatic conductive arms. The manufacturer of the motorisation device declines all responsibility if component parts not compatible with safe and correct operation are fitted.

Only use original spare parts when repairing or replacing products.

1.1 Safety functions

The CS12M control panel has the following safety functions:

- obstacle recognition with force limiting;

The maximum response time of the safety functions is 0.5 s. The reaction time to a faulty safety function is 0.5 s.

The safety functions comply with the standards and performance level indicated below:

EN ISO 13849-1:2008 Category 2 PL=c EN ISO 13849-2:2012

The safety function cannot be bypassed either temporarily or automatically. Fault exclusion has not been applied.

2. EC Declaration of Conformity

The manufacturer Entrematic Group AB, with headquarters in Lodjursgatan 10, SE-261 44 Landskrona, Sweden, declares that the Ditec CS12M type control panel complies with the conditions of the following EC directives:

2014/30/EU (EMCD) 2014/35/EU (LVD) 2014/53/EU (RED)

Landskrona, 2020-11-26

Matteo Fino resident & CEO) alles An

3. Technical specifications

	NES30	0EHP	NES4	00EHP	NES6	00EHP	NES6	DOEHP
Power	230V~ 50)/60Hz	230V~ 50	0/60Hz	230V~ 5	0/60Hz	230V~ 50)/60Hz
Motor output	24V 12	A max	24V= 14	iA max	24V 16	A max	24V= 20	A max
Power supply for accessories	24V 0,3	3A max	24V- 0,3	3A max	24V 0,	3A max	24V 0,3	3A max
Usage temperature	-20°C	+55°C	-20°C	+55°C	-20°C	+55°C	-20°C	+55°C
Storable radio codes	100 200 [BIX	MR2]	100 200 [BIX	MR2]	100 200 (BIX	MR2]	100 200 [BIX	MR2]
Radio frequency	433,92M	Hz	433,92M	Hz	433,92M	Hz	433,92M	Hz

i

NOTE: the given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

4. Commands

Command		Function	Description
1 2	NO	AUTOMATIC CLOSING	Permanent closing of the contact enables automatic closing if $\mathbf{P}[\rightarrow \mathbf{I} \cdot 2]$
1 3	NO	OPENING	Closing of the contact activates an opening operation.
1 4	NO	CLOSING	Closing of the contact activates a closing operation.
1 5	NO	STEP-BY-STEP	When selecting $\mathbb{B}[\rightarrow [\mathbb{S} \rightarrow] \cdot \mathbb{S}$, closing the contact starts a sequential opening or closing operation: opening-stop-closing-opening. WARNING: if automatic closing is enabled, the duration of the stop can be selected by selecting $\mathbb{B}[\rightarrow \mathbb{S} \mathbb{S}]$. The sequence "opening-stop-closing-opening" can be changed to "opening-stop-closing-stop-opening" $\mathbb{B}[\rightarrow PP.$
		OPENING	When selecting $\mathbf{B} \subset \mathbf{F} \subset \mathbf{F} \to \mathbf{F}$, closing the contact activates an opening operation.
1 6	NC	SAFETY STOP	The opening of the safety contact stops and prevents any movement. NOTE : to set different safety contact functions, see the $\mathbb{RP} \rightarrow \mathbb{SM}$ parameter settings.
1 8	NC	CLOSING SAFETY DEVICE	Opening the safety contact triggers a reversal of the movement (reopening) during the closing operation. When selecting $\mathbb{B} \subset \to \mathbb{S} \bigcirc \to \mathbb{N}$, with the automation idle, opening of the contact prevents any operation. When selecting $\mathbb{B} \subset \to \mathbb{S} \bigcirc \to \mathbb{O} F$, with the automation idle, opening of the contact only prevents closing.
1 <u> t</u> 9	NC	STOP	Opening of the safety contact causes the movement to stop and automatic closing is disabled. In this state, the opening (1-3/1-20) and closing (1-4) controls func- tion only if held in the pressed position and the auto- mation stops when the controls are released.
1 9	NC	EMERGENCY STOP	Connect the opening and closing controls to terminal 9 instead of terminal 1 (9-3, 9-4, 9-20) Opening of the safety contact (for example, connected to an emergency command) causes the movement to stop and additional commands are disabled.
1 9	NO	COMMAND WITH OPERATOR PRESENT	Opening of contact 1-9 enables the operator present function. - opening with operator present 1-3; - closing with operator present 1-4; - partial opening with operator present 1-20. NOTE : any safety devices, automatic closing and plug- in cards inserted in the AUX housing are disabled.
1 20	NO	PARTIAL OPENING	Closing of the contact activates a partial opening op- eration. Once the automation stops, the partial opening control performs the opposite operation to the one performed before the stop.

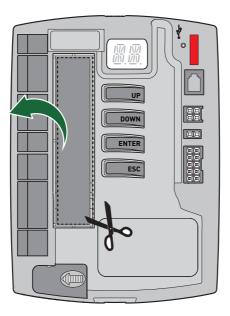


WARNING: make a jumper for all NC contacts if not in use. The terminals with the same number are equal.

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4.1 Inserting plug-in card (AUX)

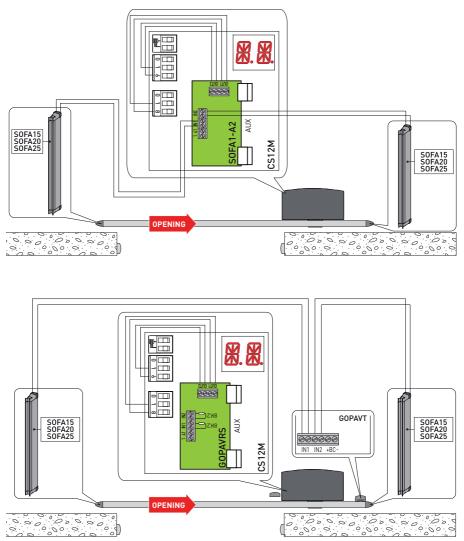
To access the plug-in card (AUX), cut the control panel cover as shown in the figure.



4.2 SOFA1-SOFA2 or GOPAVRS self-controlled safety edge

Command		Function	Description
SOFA1-SOFA2 GOPAV		SAFETY TEST	Place the SOFA1-SOFA2 or GOPAVRS device into the special housing for AUX plug-in cards. If the test fails, an alarm message appears on the display.
1 6 N	NC	SAFETY STOP	When selecting $PP \rightarrow JB \rightarrow 5$ H , connect the output contact of the safety device to terminals 1-6 on the control panel (in series with the photocell output contact, if installed).
1 8 N	1C	CLOSING SAFETY DEVICE	When selecting $\square P \rightarrow \square B \rightarrow 5$ 4/, connect the output contact of the safety device to terminals 1-8 on the control panel (in series with the photocell output contact, if installed).

Examples of installation of self-controlled safety edge



5. Outputs and accessories

Output	Value Accessories	Description
	24V 0.3A	 Power supply to accessories. External accessories power supply output. NOTE: the maximum absorption of 0.3A corresponds to the sum of all terminals 1. The gate open indicator light (1-13) is not calculated in the 0.3A indicated above, the maximum value considered is 3W.
	GOL148REA	If the GOL868R4 radio receiver is used (868.35 MHz), connect the supplied antenna wire (90mm).
+LP-	LAMPH 24V 25W	Flashing light. The pre-flashing settings can be selected from the third level menu $\mathbb{P} \to \mathbb{W}$ and/or $\mathbb{P} \to \mathbb{W}$.
	24V 3W	Automation status lamp (proportional) The light comes on when the automation is open $\mathbb{C} \to \mathbb{C} \to \mathbb{C} \to \mathbb{C}$ The light goes off when the automation is closed. The light flashes with a variable frequency while the automation is operating $\mathbb{C} \to \mathbb{C} \to \mathbb{C} F$.
		G1 - General Purpose Input Operating of the G1 input can be selected from the menu $\mathbb{RP} \rightarrow \mathbb{G}$ 1.
<u>1 6163</u>	10mA max	 G3 - General Purpose Output Operating of the G3 output depends on the type of G1 input selection. SY - If G 1→ SY, G3 operates as a sync output for parallel or interlocked automations. The ES - Energy Saving mode is not available with this configuration. 41 - If the safety test (SYI or PYI) is enabled on at least one or both inputs D G and D G. G3 operates as a safety test output. 30 - In applications with solar panels, G3 operates as a permanent positive at 24V max 10mA to be connected with the NO contact to G1 (opening and/or step-by-step).
	230V~ 400 W	External courtesy light. An external courtesy light that turns on for 180 seconds with every opening (total or partial), step-by-step and closing com- mand can be connected. The C-NO terminal can be accessed by removing the cover on the left-hand side at the bottom of the control panel. In order to comply with essential requirements of standards in force, reclose the cover once the wires have been connected to the terminal.
LN		WARNING: use a double insulated cable and secure it using the supplied cable clampsThe courtesy light output settings can be modified by selecting $RP \rightarrow U \ S \text{ or } RP \rightarrow L U \text{ or } RP \rightarrow L S.$

Output	Value Accessories	Description		
AUX	SOFA1-SOFA2 GOPAV LAN4S LAB9 BIXLR12 BIXLR22 GOL868R4	The control panel has a housing for plug-in control and safe- ty cards. The action of the control card can be selected by selecting ■ C→ AM. If slot-in radio boards are used, remove the RDX module. The display will show RV. WARNING: the plug-in cards must be inserted and removed with the power supply disconnected.		
RDX •••	ZENRS ZENPRS	The control panel is fitted with a housing for factory-set ZENRS (433.92 MHz) radio receiver type modules. Can be replaced with a ZENPRS (868.35 MHz) radio receiver type module. Operating is selected by selecting B \rightarrow R $\stackrel{\textbf{M}}{}$. If slot-in radio boards are used, remove the RDX module. The display will show R $\stackrel{\textbf{V}}{}$. WARNING : the modules must be inserted and removed with the power supply disconnected.		
		Mains power supply, motor, release microswitch and automa- tion wiring connection (factory settings)		
Ý	USB	The control panel has a USB input for connecting a USB memory stick to update the FW or download diagnostic data. It can also be connected to a PC for updates to the firmware file which can be downloaded from the website www. ditecentrematic.com using AMIGO software by way of a USB Standard-A plug to Micro -B plug cable.		
		WARNING: disconnect the USB card and/or the cable from the USB input only whey you have set PP \rightarrow E $\mathbb{I} \rightarrow \mathbb{N}$ \rightarrow L $\mathbb{I} \rightarrow \mathbb{N}$		
СОМ	BIXMR2	COM - This allows the functioning configurations to be saved using the function $SF \rightarrow SV$. The saved configurations can be recalled using the function $SF \rightarrow R\Gamma$.COM - The storage module allows the remote controls to be stored. If the control panel is replaced, the storage module being used can be inserted in the new control panel.WARNING: the storage module must be inserted and removed with the power supply disconnected.		

Output	Value Accessories		Description			
		DIA - Connection of automation diagnostic LED.				
		000	OFF	No power supply.		
DIA		•••	1 flash every 5s	Mains power supply present, but gate stopped and waiting for commands. Any external faults are not detected by the di- agnostic LEDs.		
		-00	flashing in sync with LAMPH	Mains power supply present, normal op- eration. flashing LED in sync with output +LP- (LAMPH)		
		0 – 0	1 flash every 10s	No mains power supply (battery-powered operation).		
		0 – 0	steady on	Request for maintenance (V0 alarm)		
		00-	steady on	Release door open		
		00-	1 flash every 1s	Permanent alarm (see ALARMS and/or TROUBLESHOOTING)		
BAT	SBU 2x12V 2Ah	The batter power is safety th WARNIN panel ies. NOTE : th is fror	ipply is off, the re-establish of reshold. The p IG: the batterie for charging. P ne operating to n +5°C to +40° nced control of	charged when the power supply is on. If the panel is powered by the batteries until the or until the battery voltage drops below the panel turns off in the last case. as must always be connected to the control leriodically check the efficiency of the batter- emperature of the rechargeable batteries		
LSW	NES100FCM		lagnetic limit l on Ditec NES	switch kit 5300 and NES400].		

6. Selections

Jumper	Description	OFF	ON
JR1	Display mode selection.	Display mode. Only the values and pa- rameters present can be displayed.	

7. Adjustments



NOTE: pressure on the keys can be quick (less than 2 s) or prolonged (longer than 2 s). Unless specified otherwise, quick pressure is intended. To confirm the setting of a parameter, prolonged pressure is necessary.

7.1 Switching the display on and off

The procedure to switch on the display is as follows:



• press the ENTER key



• the display functioning check starts



• the first level menu is displayed



The procedure to switch off the display is as follows:

• press the ESC key



NOTE: the display switches off automatically after 60 s of inactivity.

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7.2 Key combinations

- Simultaneous pressing of the keys $\uparrow {\rm and}$ ENTER performs an opening command.



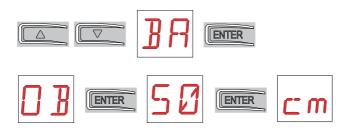
• Simultaneous pressing of the keys \downarrow and ENTER performs a closing command.



• Simultaneous pressing of the keys \uparrow and \downarrow performs a POWER RESET command. (interruption of the power supply and restart of the automation).



- Hold down the UP \uparrow or DOWN \downarrow key to begin fast menu scrolling.
- In some menus, the parameter unit of measurement can be displayed by pressing the ENTER key once the value has been displayed (in the example, 50 cm).



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7.3 Main menu

- using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



After confirming the selection, you access the second level menu.

Display	Description
RT	AT - Automatic Configurations. The menu allows you to manage the automatic configurations of the control panel.
BC	BC - Basic Configurations. The menu allows you to display and modify the main settings of the control panel.
BR	 BA - Basic Adjustments. The menu allows you to display and modify the main adjustments of the control panel. NOTE: some settings require at least three operations before they are set correctly.
R [].	RO - Radio Operations. The menu allows you to manage the radio operations of the control panel.
SF	SF - Special Functions. The menu allows you to set the password and manage the special functions in the control panel.
	CC - Cycles Counter. The menu allows you to display the number of operations carried out by the automation and manage the maintenance interventions.
EM	EM - Energy Management. The menu allows you to display and modify the energy saving settings and adjustments.
RP	 AP - Advanced Parameters. The menu allows you to display and modify the advanced settings and adjustments of the control panel. NOTE: some settings require at least three operations before they are set correctly.



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WARNING: depending on the type of automation and control panel, some menus may not be available.

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7.4 Second level menu AT (Automatic Configurations)

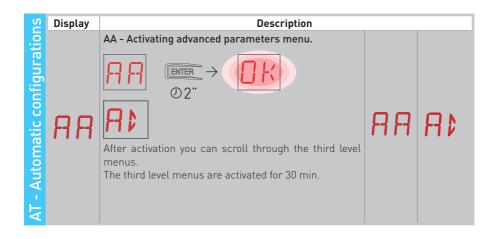
- using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



	Display	Description	
	RT	RT - Opening to right.	
	LF	LF - Opening to left.	
AT - Automatic configurations	ΗØ	 H0 - Predefined setting, residential use 0. This selection loads predefined values for certain AC - enabling of automatic closing C5 - step-by-step/opening command operation RM - remote control operation AM - AUX plug-in card operation SS - Selection of automation status at start-up 	n standard parameters: : 1-2 : step-by-step : step-by-step : step-by-step : open
	<u>H_1</u>	 H1 - Predefined setting, residential use 1. This selection loads predefined values for certain AC - enabling of automatic closing TC - setting of automatic closing time C5 - step-by-step/opening command operation RM - remote control operation AM - AUX plug-in card operation SS - Selection of automation status at start-up 	n standard parameters: : enabled : 1 minute : step-by-step : step-by-step : step-by-step : closed
	[]	 C0 - Predefined setting, condominium use 0. This selection loads predefined values for certain AC - enabling of automatic closing TC - setting of automatic closing time C5 - step-by-step/opening command operation RM - remote control operation AM - AUX plug-in card operation SS - Selection of automation status at start-up 	n standard parameters: : enabled : 1 minute : opening : opening : opening : closed
	RIJ	RD - Resetting of general settings (SETTINGS R $\bigcirc 2^{\circ}$	ESET).





Depending on the type of automation and control panel, some menus may not be available.

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7.5 Second level menu - BC (Basic Configurations)

• using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



	Display	Description		
BC - Basic configurations	RC	AC - Enabling of automatic closing. ON - Enabled 1-2 - Dependent on input 1-2		1-2
	55	SS - Selection of automation status at start. OP - Open CL - Closed Indicates how the control panel considers the automa- tion at the time of switch-on, or after a POWER RESET command.	0P	<u>EL</u>
	50	 SO - Enabling of reversal safety contact functioning. ON - Enabled OF - Disabled When enabled (ON) with the automation idle, if the contact 1-8 is open, all operations are prevented. When disabled (OF) with the automation idle, if the contact 1-8 is open, opening operations are permitted. 		٥F
	NI	 NI - Enabling of NIO electronic anti-freeze system. ON - Enabled OF - Disabled When enabled (ON) it maintains motor efficiency even at low ambient temperatures, increases the starting time 5 T to the maximum value and reduces the acceleration time T A to the minimum value. NOTE: for correct operation, the control panel must be exposed to the same ambient temperature as the motors. The intervention temperature for NIO can be set by selecting AP → T N. 	٥N	<u>OF</u>



WARNING: depending on the type of automation and control panel, some menus may not be available.

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7.5.1 Additional BC level parameters that can be configured (available with ☐ T → ☐ ☐ enabled)

	Display	Description		
	DL	OL - Automation open indicator light mode ON - Steady on OF - Flashing	ΟN	OF
	٢٥	C5 - Step-by-step/opening command operation. 1-5 - Step-by-step 1-3 - Opening	1-5	I- 3
ions	RM	RM - Radio receiver operation. 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
nfigurat	RM	AM - AUX plug-in control card operation. 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
Basic configurations	٩٩	 PP - Setting step-by-step sequence from command 1-5. ON - Opening-Stop-Closing-Stop-Opening OF - Opening-Stop-Closing-Opening 	٥N	OF
BC -	55	 S5 - Duration of STOP in step-by-step sequence from command 1-5. ON - Permanent OF - Temporary 		<u>DF</u>
	נס	 OD - Selecting opening direction. LF - Opening to left. RT - Opening to right. The opening direction is intended by viewing the automation from the side being examined. NOTE: Modification of status from RT to LF and viceversa performs an automatic RESET of the card. 	LF	RT

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7.6 Second level menu - BA (Basic Adjustment)

- using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



	Display	Description	
BA - Basic adjustment	MT	 MT - Display of type of automation. N3 - Motor with 300kg capacity N4 - Motor with 400kg capacity N6 - Motor with 600kg capacity N1 - Motor with 1000kg capacity NOTE: this parameter is DISPLAY only. 	N 3 N 4 N 6 N 1
	ΤĽ	 TC - Setting of automatic closing time. [s] It is set with different intervals of sensitivity. from 0" to 59" with intervals of 1 second; from 1' to 2' with intervals of 10 seconds. 	00,59 ',2' 1'00"
	RP	 RP - Adjustment of partial opening measurement. [%] Adjusts the percentage of operation in relation to the total opening of the automation. 10 - Minimum 99 - Maximum 	1 Ø 9 9 30
	ΤP	 TP - Setting of automatic closing time after partial opening. [s] It is set with different intervals of sensitivity. from 0" to 59" with intervals of 1 second; from 1' to 2' with intervals of 10 seconds. 	ØØ,59 '→2' 00'30''
	ŀ′ R	 VA - Setting of opening speed. [cm/s] NOTE: 19 - Maximum with MT → N 1 24 - Maximum with MT → NE 25 - Maximum with MT → N 3 or N4 	1 Ø 2 5
	ŀΈ	VC - Setting of closing speed. [cm/s] NOTE: 19 - Maximum with MT → N 1 24 - Maximum with MT → NE 25 - Maximum with MT → NB or NH	1 <mark>0 2 5</mark> 15

	Display	Description	
BA - Basic adjustment	R2	 R2 - Adjustment of thrust on obstacles and current during opening [%] The control panel is equipped with a safety device that stops movement if an obstacle is detected during an opening operation with disengagement of 10cm. 00 - Minimum thrust 99 - Maximum thrust 	0 ,99 ₅₀
	R 1	 R1 - Adjustment of thrust on obstacles and current during closing [%] The control panel is fitted with a safety device which stops or reverses movement when an obstacle is detected during a closing operation. 00 - Minimum thrust 99 - Maximum thrust 	00,99 50



WARNING: depending on the type of automation and control panel, some menus may not be available.



NOTE: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.

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7.6.1 Additional BA level parameters that can be configured (available with $\square \uparrow \rightarrow \square \square$ enabled)

	Display	Description	
BA - Basic adjustment]] T	 DT - Adjustment of obstacle recognition time. [s/100] 10 - Minimum 60 - Maximum NOTE: the parameter is adjusted in hundredths of a second. 	1 Ø 6 Ø 40
	MP	 MP - Start at maximum power ON - During start-up it increases the thrust on obstacles to maximum. OFF - During start-up the thrust on obstacles is that adjusted by R 1-R2 	
	5 T	ST - Adjustment of start time. [s] 0.5 - Minimum 3.0 - Maximum	0.5·3.0 2.0
	TR	 TA - Adjustment of acceleration time. [s] 0.5 - Minimum (start speed is 75% of 𝒴𝑘 - 𝒴𝑘) 2.0 - Maximum 	0.5°2.0 2.0
	T]]	TD - Adjustment of deceleration time. [%] 10 - Minimum 99 - Maximum	10 [,] 99 ₇₅
	▯	 OB - Adjustment of deceleration distance during opening. [cm] Indicates the distance from the end of the opening stroke where the deceleration ramp begins. O5 - Minimum 99 - Maximum NOTE: reduce the deceleration space if there is a se- ries of quick vibrations (chattering) in heavy gates in- stalled with a slight incline. 	2 5,9 9 40
	C B	 CB - Adjustment of deceleration distance during closing. [cm] Indicates the distance from the end of the closing stroke where the deceleration ramp begins. 05 - Minimum 99 - Maximum NOTE: reduce the deceleration space if there is a se- ries of quick vibrations (chattering) in heavy gates in- stalled with a slight incline. 	0 5,9 9 40
	P۵	 PO - Adjustment of approach speed during opening. [cm/s] Indicates the speed from the end of the deceleration ramp to the end of the stroke. 02 - Minimum 10 - Maximum NOTE: gradually increase the approach speed if there is a series of quick vibrations (chattering) in heavy gates installed with a slight incline. 	02 2 10 03

	Dianlay	Decerintian	
BA - Basic adjustment	P [Description PC - Adjustment of approach speed during closing. [cm/s] Indicates the speed from the end of the deceleration ramp to the end of the stroke. 02 - Minimum 10 - Maximum NOTE: gradually increase the approach speed if there is a series of quick vibrations (chattering) in heavy gates installed with a slight incline.	02,10 03
	00	 OO - Obstacle detection limit during opening [cm] Indicates the distance from the end of the opening stroke after which each obstacle is considered a stop. O5 - Minimum 99 - Maximum NOTE: This parameter is only active if AP → F A → ND 	0 5,9 9 40
	00	OC - Obstacle detection limit during closing [cm] Indicates the distance from the end of the closing stroke after which each obstacle is considered a stop. 05 - Minimum 99 - Maximum NOTE: This parameter is only active if $PP \rightarrow FC \rightarrow ND$	0 5,9 9 40



NOTE: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.

ΕN

7.7 Second level menu - RO (Radio Operations)

- using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



	Display	Description			
Radio operations	5.8	 SR - Remote control storage. You can directly access the Remote control storage menu even with the display turned off, but only with the Display visualisation mode option set to 00 or 03: - for transmitting a remote control not present in the memory; - for transmitting an unstored channel of a remote control already present in the memory. 			
R0 -	Тх	TX - Visualisation of counter showing remote controls stored $\boxed{\text{INTR}} \rightarrow \boxed{2} \qquad 2 \qquad 3 \qquad 3$			
	МЦ.	MU - Indication of maximum number of remote controls that can be stored in the integrated memory. You can store a maximum of 100 or 200 remote control codes. $\square \square \square \rightarrow \square \square$			

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	Display	Description		
RO - Radio operations		RK - Menu navigation using remote control keyboard. ON - Enabled OF - Disabled We recommend using a NES100TXT (433,92MHz) or NES200TXT (868,35MHz) remote control. With the display turned off, quickly type in the se- quence of keys (3) (3) (2) (4) (1) from the stored re- mote control you want to use. Make sure all the CH keys are stored. WARNING: during navigation with a remote control key- board ALL the stored remote controls are inactive.	0 N	ŌF
R0 -		To aid viewing and adjustment (avoiding the need to continuously press the remote control), press the UP \uparrow or DOWN \downarrow key once to begin slowly scrolling through the parameters. This scrolling movement is faster if the UP \uparrow or DOWN \downarrow key is pressed twice. To stop the scrolling, press ENTER. To confirm your choice of parameter, press ENTER again. To test any new setting, switch off the display and is- sue an opening command using key (3). Navigation using a remote control keyboard is auto- matically disabled after 4 minutes of inactivity or by setting $\mathbb{R} K \rightarrow \mathbb{O} F$.		



WARNING: depending on the type of automation and control panel, some menus may not be available.

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7.7.1 Additional RO level parameters that can be configured (available with $\square \uparrow \rightarrow \square \square$ enabled)

	$[available with H] \rightarrow H H enabled]$					
	Display	Description				
tions	С 1 С 2 С 3 С Ч	 C1, C2, C3, C4 - Selection of CH1, CH2, CH3, CH4 function of stored remote control. N0 - No setting selected 1-3 - Opening command 1-4 - Closing command 1-5 - Step-by-step command Partial opening command LG - Command to switch on/off the courtesy light 1-9 - STOP command If only one (any) CH key of the remote control is stored, the opening or step-by-step command is carried out. WARNING: options -] (opening) and -5 (step-by-step) are available as an alternative and depend on the selection][→ RM. If 2-4 CH keys of a single remote control are stored, the factory-set functions matched with the CH keys are as follows: CH1 = opening/step-by-step command; CH2 = partial opening command; CH3 = command to switch on/off the courtesy light CH4 = STOP command. 	N 0 I- 5 P 3 L 6	- 3 - 4 - 9		
		ER - Cancelling a single remote control.				
perat	ER	$\underbrace{\operatorname{Res}}_{02^{"}} \rightarrow \underbrace{\operatorname{R}}_{02^{"}} \rightarrow \underbrace{\operatorname{R}}_{02^{"}}$				
RO - Radio operations	ER	EA - Cancelling an entire memory. $\bigcirc 2^{"} \rightarrow \bigcirc 2^{"}$				
- 8	EE	EC - Cancelling a single code. (FOR FUTURE USE)				
RO	RE	 RE - Setting memory opening from remote control. OF - Disabled ON - Enabled. When enabled (ON), the remote programming is activated. To store new remote controls without using the control panel, press the PRG key of an already stored GOL4 remote control for 5 seconds until the LED comes on (within the range of the receiver) and press any one of the CH keys on the new remote control. NOTE: make sure you do not accidentally memorise unwanted remote controls. 		٥F		
	ΕP	EP -Setting the coded area messages If the possibility to receive coded messages is enabled, the control pan- el will be compatible with remote controls of the "ENCRYPTED" type.	ΠN	<u>DF</u>		
	МS	 MS - Backward compatibility setting with older generation GOL4 remote controls. NOTE: Firmware version 2.0.7 or later OF - Compatibility with old generation GOL4 and new ZEN remote controls. ON - Compatibility with ZEN series remote controls. NOTE: MS= ON is recommended if only ZEN series remote controls are used on the system. 		OF		

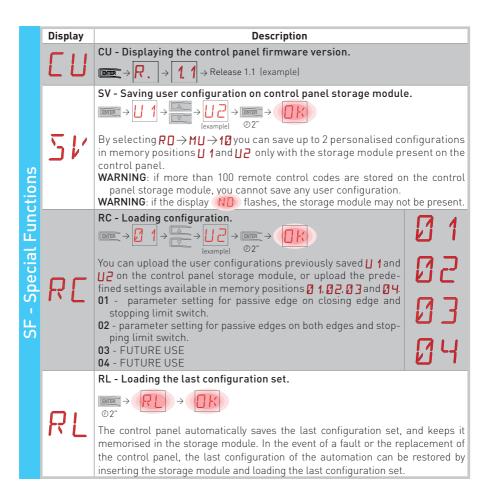
7.8 Second level menu - SF (Special Functions)

• using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm





7.8.1 Additional SF level parameters that can be configured (available with $\square \uparrow \rightarrow \square \square$ enabled)

	Display	Description
	Display	SP - Setting the password.
SF - Special Functions	5P	NOTE: this can only be selected when the password is not set. Setting the password prevents unauthorised personnel from accessing selections and adjustments. You can delete the set password by selecting the sequence JR1=ON, JR1=OFF, JR1=ON.
	ΙP	IP - Inserting the password. $\boxed{IP} \rightarrow \boxed{I} \rightarrow \boxed{I} \rightarrow \underbrace{[O]}_{(example)} \rightarrow \underbrace{[O]}_{(O2'')} \rightarrow \underbrace{[IP]}_{(O2'')} \rightarrow \underbrace{[IP]}_{(O2''')} \rightarrow \underbrace{[IP]}_{(O2'')} \rightarrow \underbrace{[IP]}_{(O2''$
	ЕU	EU - Cancellation of user configurations and last configuration set in the storage module. $\boxed{\texttt{MTR}} \rightarrow \boxed{\texttt{LU}} \rightarrow \boxed{\texttt{DTR}} \\ \textcircled{02^{"}} \qquad \textcircled{02^{"}}$
	RL	AL - Alarm counter Used to view, in sequence, the counters of alarms that have been triggered at least once (alarm code + number of times triggered). With A and A, you can scroll through all the counters and see all the alarms recorded.
SF - 9	RH	AH - Alarm log Used to view, in sequence, alarms that have been triggered (maximum 20). With A and A, you can scroll through the entire alarm log. The display shows the alarm number and code, alternated. The highest number corresponds to the most recent alarm and the lowest number (0) corresponds to the oldest alarm.
	RR	 AR - Alarm reset Resets all the alarms in the memory (counters and log). Imme → Imme O2" NOTE: when the installation has been completed, you are advised to delete the alarms in order to facilitate future checks.
	RE	AE - Writing of alarms on NES100USB Creates a text file on the NES100USB memory, containing some information about the control panel: the firmware version, operation counters, hour coun- ters, configuration parameters, alarms.
		NG : depending on the type of automation and control panel, some menus may wailable.

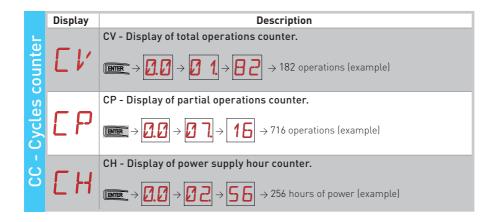
7.9 Second level menu - CC (Cycles Counter)

- using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm

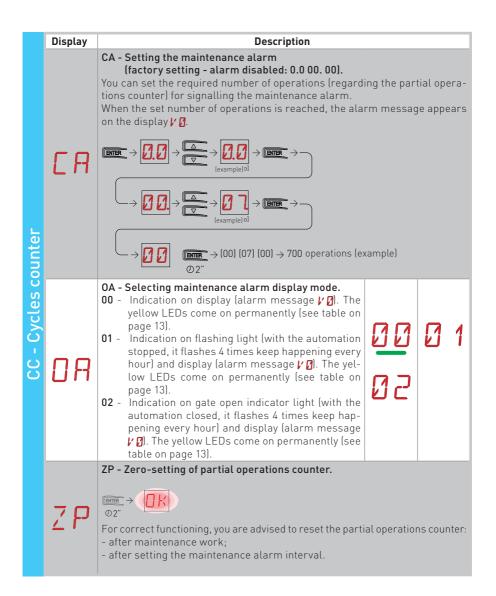




WARNING: depending on the type of automation and control panel, some menus may not be available.

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7.9.1 Additional CC level parameters that can be configured (available with $\square \uparrow \rightarrow \square \square$ enabled)



7.10 Second level menu - EM (Energy Management)

- using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



	Display	Description		
	PV'	PV - Solar panel power supply (panels not supplied) ON - Enabled OF - Disabled	ΠN	OF
EM - Energy management	Ε 5	 ES - Accessory power supply disconnection with automation stopped or in stand-by "Energy Saving" mode (RECOMMENDED FOR SOLAR PANEL SYSTEMS - not supplied). ON - Enabled (the LEDs are OFF, the red dot on the right flashes every 5 s on the display, the flashing light and the courtesy light are not operated). OF - Disabled The power supply disconnection mode is activated after 10 s with the gate closed or when the gate is closed and automatic closing is not enabled or when a 1-9 - STOP command intervenes. The automation resumes normal operation after a command received from the radio card (ZENRS-ZE-NPRS) or after activation of a contact (for example, key selector switch) connected between G3-G1. WARNING: The GOPAV safety devices are not compatible with this selection. Only SOF safety devices can be used. If ⊆ S is enabled, parallel or interlocked systems cannot be used. With E S enabled, some signals like those for the maintenance alarm and flat batteries are not active. The USB output is not active with E S enabled. The operating hours E H counter is not active. 	ΟN	OF



WARNING: depending on the type of automation and control panel, some menus may not be available.

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7.10.1 Additional EM level parameters that can be configured (available with $\square \uparrow \rightarrow \square \square$ enabled)

	Display	Description		
EM - Energy management	LL	 LL - Voltage threshold for indicating that batteries are almost flat (V) 17 - Minimum 24 - Maximum NOTE: it is set with an interval of sensitivity of 0.5 V shown when the decimal point on the right lights up. 		2
	LB	 LB - Indication that batteries are almost flat 00 - Indication on display (alarm message)). 01 - Indication on flashing light (with the automation stopped, it flashes 4 times keep happening every hour) and display (alarm message)). 02 - Indication on gate open indicator light (with the automation closed, it flashes 4 times keep happening every hour) and display (alarm message) . 	00	1

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7.11 Second level menu - AP (Advanced Parameters)

• using keys \uparrow and \downarrow select the desired function



• press the ENTER key to confirm



	Display	Description		
AP - Advanced parameters	FR	 FA - Selection of opening limit switch mode. N0 - None SX - Stop limit switch (after activation the door wing stops its movement) PX - Proximity limit switch (after activation the door wing continues as far as the end stop and any obstacle is considered a stop) (with standard limit switches) 	ND P×	<u>5</u> X
	FΕ	 FC - Selection of closing limit switch mode. N0 - None SX - Stop limit switch (after activation the door wing stops its movement) PX - Proximity limit switch (after activation the door wing continues as far as the end stop and any obstacle is considered a stop) (with standard limit switches) 	ND P X	<u>5</u> ×
	16	 D6 - Selection of device connected to terminals 1-6. N0 - None SE - Safety edge (if contact 1-6 opens, after stopping, there is a disengagement of 10cm) S41 - Safety edge with safety test (if contact 1-6 opens, after stopping, there is a disengagement of 10cm) PH - Photocells P41 - Photocells with safety test 	N () 5 41 17 41	SE PH
]8	D8 - Selection of device connected to terminals 1-8.NO -NoneSE -Safety edgeS41 -Safety edge with safety testPH -PhotocellsP41 -Photocells with safety test	N () 5 41 12 41	SE PH

ပ်	Display	Description		
AP - Advanced Parameters		 DS - Setting of display visualisation mode. 00 - No display 01 - Commands and safety devices with radio test (see paragraph 8.2). Display of count down to automatic closing. 02 - Automation status (see paragraph 8.1) 03 - Commands and safety devices (see paragraph 8.2) NOTE: setting 2 1 displays the receipt of a radio transmission for range tests. 	00	0 0 3



WARNING: depending on the type of automation and control panel, some menus may not be available.



ΕN

NOTE: make adjustments gradually and only after performing at least three complete operations to allow the control panel to be set correctly and detect any friction during operations.

7.11.1 Additional AP level parameters that can be configured (available with $\square \uparrow \rightarrow \square \square$ enabled)

	Display	Description				
AP - Advanced Parameters	EIJ	ED - Enabling of diagnostics Enables periodic saving of data via serial for diagnos- tic use. NO - Disabled 01 - Checking virtual encoder (DO NOT USE) 02 - Alarm log		2]	1
	US	US - Type of C-NO contact use OF - Contact always open 01 - Courtesy light (L U o L 5) 02 - LAMP flashing (230V~) 03 - Gate closed 04 - Gate open 05 - Gate moving 06 - Gate opening 07 - Gate closing ON - Contact always closed		F 24 6 N		1
	LU	 LU - Setting switch-on time for courtesy light (s). To enable the parameter, set AP → US → Ø 1. It is set with different intervals of sensitivity. NO - Disabled - from 01" to 59" with intervals of 1 second; - from 1' to 2' with intervals of 10 seconds; - from 2' to 3' with intervals of 1 minute; ON - Permanently ON, switched off with remote control NOTE: The courtesy light switches on at the start of each operation. 				9 5 ' } '
	LG	 LG - Setting switch-on time for courtesy light controlled independently. [s] To enable the parameter, set AP → U 5 → Ø 1. It is set with different intervals of sensitivity. NO - Disabled from 01" to 59" with intervals of 1 second; from 1' to 2' with intervals of 10 seconds; from 2' to 3' with intervals of 1 minute; ON - Switched on and off with remote control. NOTE: The switching on of the light does not depend on the start of an operation, but can be commanded separately using the special remote control key. 	2	N 1' '		9 5 i] i

	Display	Description					
AP - Advanced Parameters	PA	 PA - Automation parallel (see examples of applications) Sets the type of automation parallel 01 - Simultaneous automations 02 - Interlocked one-way or two-way transit automations without presence detection 03 - Interlocked one-way transit automations with presence detection 	0102 03				
	<u> </u>	G1 - Setting the G1 input mode NO - Absent 1-3 - Opening 1-5 - Step-by-step 1-6 - Safety stop 1-8 - Input 1-8 (safety reopening) depending on setting RP → T 5. SY - Synchronism input	ND I- 3 I- 5 I- 6 I- 8 5 Y				
	PG	 PG - Enabling interlocked automation opening control request (see examples of applications). ON - Enabled OF - Disabled When enabled (ON), it requests the automation 1 opening command if automation 2 is engaged in completing the operation. 					
	ΤD	 T0 - Motor 2 delay time (s) (see examples of applications). This adjusts the opening delay time of the second interlocked automation. 00 - Minimum 30 - Maximum 					
	ΡT	PT - Fixed partial opening. ON - Enabled. OF - Disabled If ON, a partial opening command given on the partial opening position is ignored. With contact 1-20 closed (for example with the timer or manual selector), the gate will partially open and if it is then opened completely (command 1-3) and then reclosed (with automatic closing as well), it will stop at the partial opening position.					
	סנ	 D0 - Setting of disengagement on stop during opening. [mm] 00 - Minimum 10 - Maximum NOTE: Not active if F A → 5 X 	02 0 10				
][DC - Setting of disengagement on stop during closing. [mm] 00 - Minimum 10 - Maximum NOTE: Not active if F [→ 5 X 	02 ¹				

	Displa	y	Description				
AP - Advanced Parameters		T	OT - Selection of type of obstacle. 00 - Overcurrent or door stopped 01 - Overcurrent 02 - Door stopped				
	EF	Ş	CR - Correction to calculated speed. [mm/s] DO NOT USE (diagnostic purposes only)		9	+ 9	
	R <u>c</u>	3	 R9 - Enabling automatic closing after command 1-9 (STOP) from terminal board. OF - Disabled. ON - Enabled. NO - None. Disables safety device 1-9. 		F D	ΟN	
	51	1	 SM - Selection of operating mode of device connected to terminals 1-6. OD - During the operation, the opening of the safety contact stops movement (with disengagement if JB → SE / S⁴). O1 - During the operation, the opening of the safety contact stops movement [with disengagement if JB → SE / S⁴]. O1 - During the operation, the opening of the safety contact stops movement [with disengagement if JB → SE / S⁴]. O2 - During the operation, the opening of the safety contact stops movement [with disengagement if JB → SE / S⁴]. When the contact closes again, the interrupted operation continues. O2 - During the opening operation, the opening of the safety contact stops movement [with disengagement if JB → SE / S⁴]. When the contact closes again, an opening operation is performed. O3 - During the opening operation, the opening of the safety contact stops movement [with disengagement if JB → SE / S⁴]. When the contact closes again, the interrupted opening operation is resumed. During the closing operation, the safety device is ignored. O4 - During the closing operation, the opening of the safety contact reverses the movement. During the opening operation, the safety device is ignored. O5 - During the closing operation, the opening of the safety contact stops and reverses the movement. During the opening operation, opening of the safety contact stops movement [With disengagement if JB → SE / S⁴]. 			0 3 0 5	
	TN	1	 TN - Setting of intervention temperature for NIO anti- freeze system. [°C] Adjustment of the working temperature of the control panel. The value does not refer to ambient temperature. 	9'2 0 20			
	T]	B	TB - Display of working temperature of control panel. DO NOT USE				
	11[]	 WO - Setting of pre-flashing time on opening. [s] Adjustment of the lead time for the switch-on of the flashing light, in relation to the start of the opening operation from a voluntary command. O0 - Minimum O5 - Maximum 	00 ⁰⁰			

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ပ်	Display	Description		
Parameters	NE	 WC - Setting of pre-flashing time on closing. [s] Adjustment of the lead time for the switch-on of the flashing light, in relation to the start of the closing operation from a voluntary command. 00 - Minimum 05 - Maximum 	00 ⁰ 00	
- Advanced	T 5	 TS - Setting of renewal of automatic closing time after safety device release. [%] 00 - Minimum 99 - Maximum 	00,99 99	
AP - A0	l' R	VR - Setting of learning speed. [cm/s]	05 10 05	

8. Display visualisation mode



WARNING: depending on the type of automation and control panel, some menus may not be available.

8.1 Display of automation status

The automation status display mode is only visible with Display visualisation mode set to 02.

$P \rightarrow DS \rightarrow D2$

Display	Description	
ΓΞ	Automation closed.	
E.I	Automation closed. Release door open.	
- 1	Automation open.	
. 1	Automation open. Release door open.	
Ε	Automation stopped in intermediate position.	
.	Automation stopped in intermediate position. Release door open.	
1 1	Automation closing.	
1	Automation that slows down during closing.	
1 1	Automation opening.	
	Automation that slows down during opening.	

Display	Description	
_]	Automation closed.	
_ .]	Automation closed. Release door open.	
1	Automation open.	
Ι.	Automation open. Release door open.	
]	Automation stopped in intermediate position.	
] .	Automation stopped in intermediate position. Release door open.	
0	Automation closing.	
4	Automation that slows down during closing.	
1 1	Automation opening.	
1	Automation that slows down during opening.	

8.2 Display of safety devices and commands

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The safety and command display mode is only visible with Display visualisation mode set at 01 or 03.

$\begin{array}{c} \mathsf{AP} \rightarrow \texttt{IS} \rightarrow \texttt{O1} \\ \mathsf{AP} \rightarrow \texttt{IS} \rightarrow \texttt{O3} \end{array}$

Display	Description
1-2	1-2 - Automatic closing command.
I- 3	1-3 - Opening command.
1-4	1-4 - Closing command.
1-5	1-5 - Step-by-step command.
1-6	1-6 - Safety device with opening and closing stop.
1-8	1-8 - Safety with closing reversal.
I- 9	1-9 - STOP command
PЗ	P3 - Partial opening command.
3P	3P - Opening command with operator present.
ЧР	4P - Closing command with operator present.
R ×	RX - Radio reception (of any memorised key of a transmitter present in the memory).
N×	NX - Radio reception (of any non-memorised key).

Ε×	EX - Rolling-code radio reception out of sequence
EP	EP - Radio reception not complying with the parameter configuration $R \square \rightarrow E P$
ĽΧ	CX - Receipt of command from AUX card.
F 1	F1 - Closing limit switch
F 2	F2 - Opening limit switch
	01 - Detection of an obstacle during closing
02	02 - Detection of an obstacle during opening
	00 - Reaching of obstacle detection limit during opening
	OC - Reaching of obstacle detection limit during closing
51	S1 - Detection of stop during closing
25	S2 - Detection of stop during opening
2 W	SW - Release door open. When the release door is closed, the control panel performs a RESET (alarm
RV	RV - Enabling/disabling of built-in radio receiver via RDX.
MQ	MQ - Learning operation of mechanical end stops in progress.
HT	HT - Heating of the motors (NIO function) in progress.

<u>ا</u> ل	JR1 - Variation of the JR1 jumper status.
<u> </u>	G1 - General Purpose 1
PC	PC - Recognition of connected HOST (Personal Computer).
UB	UB - Recognition of connected USB memory stick
	UD - Disconnection of cable and USB memory stick
Ε5	ES - Switch to Energy Saving mode.
80	AO - Interlocked automation opening control request.

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8.3 Display of alarms and faults

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Alarms and faults can be displayed with any display selection. The signalling of alarm messages takes priority over all other displays.

Type of alarm	Display	Description	Operation	
	MØ	M0 - Selected motor not suitable.	Set correct motor wiring.	-
	MB	M3 - Automation blocked (open/ closed)	Check the mechanical parts	•
	МЧ	M4 - Motor short circuit	Check the motor is correctly con- nected. Check the motor is working prop- erly.	•
	MB	M8 - Gate too long error (>25 m)	Check the rack / chain belt	-
Mechanical alarm	M9	M9 - Gate too short error (< 200 mm)	Manually check that the door wing moves freely.	-
Mechani	MB	MB - Absence of motor during an op- eration.	Check connection of motor. Check motor brush contacts. If the problem persists, contact Technical Support.	-
	M]]	MD - Irregular functioning of motor opening limit switch.	Check connection of the motor open- ing limit switch.	
	ME	ME - Irregular functioning of motor closing limit switch.	Check connection of the motor clos- ing limit switch.	
	MI	MI - Detection of fifth consecutive obstacle.	Check for the presence of permanent obstacles along the stroke of the automation.	•
	ML	ML - Inverted limit switches	Check limit switch connection.	•
Power supply operations alarm	RØ		To save the system configurations on the storage module, delete any stored remote controls and bring the total to less than 100. Set $\overrightarrow{\text{RO}}$	

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Type of alarm	Display	Description	Operation	LED
io s alarm	R3 - Storage module not detected I (with RDX inserted).		Insert a working storage module or remove RDX.	
Radio operations alarm	RS	R5 - Storage module not working (re- gardless of RDX)	Replace the storage module.	
	RØ	A0 - Failure of test of safety sensor on contact 6.	Check that device SOFA1-A2/GOPAV is working correctly. If the supplementary card is not inserted, check that $\square G$ is not set to $\subseteq 4/$	-
alarm	83	A3 - Failure of test of safety sensor on contact 8.	Check that device SOFA1-A2/GOPAV is working correctly. If the supplementary card is not in- serted, check that]] [] is not set to 5 4] / [] 4]	-
Accessories alarm	87	A7 - Incorrect connection of contact 9 to G3		-
	89	A9 - Flashing light output short cir- cuit alarm	Check that the flashing light is working properly.	-
	83	AB - Gate open indicator light shortcircuit alarm	Check that the gate open indicator light is working correctly.	-
Battery	BC	B0 - Battery almost flat	Check battery voltage. Replace battery.	
ver supply alarm	PØ	P0 - No mains voltage.	Check the control panel is powered correctly. Check the line fuse. Check the mains power supply.	-
Power supply alarm	P 1	P1 - Microswitch voltage too low	Check the control panel is powered correctly.	
anel larm	12	I2 - No communication between parallel automations.	Check G1 (MASTER) - G3 (SLAVE) and G3 (MASTER) - G1 (SLAVE) con- nections. Reset. If the problem persists, contact Technical Support.	
Control panel internal alarm	I7	17 - Internal parameter outside lim- its error	Reset. If the problem persists, replace the control panel.	•
	I8	18 - Program sequence error	Reset. If the problem persists, replace the control panel.	•

Type of alarm	Display	Description	Operation	LED
	IR	IA - Internal parameter error (EEPROM)	Reset. If the problem persists, replace the control panel.	-
Control panel Internal alarm	IB	IB - Internal parameter error (RAM)	Reset. If the problem persists, replace the control panel.	•
Contr intern	IC	IC - Operation time out error (>5 min or >7 min in acquisition mode)	Manually check that the door wing moves freely. If the problem persists, replace the control panel.	-
	ΙH	IH - Overcurrent with motor switched off alarm	Reset. If the problem persists, replace the control panel.	•
	IM	IM - Shortcircuited motor MOSFET alarm	Reset. If the problem persists, replace the control panel.	-
Control panel nternal alarm	ID	IO - Interrupted power circuit (mo- tor MOSFET open)	Reset. If the problem persists, replace the control panel.	-
Contro interna	IR	IR- Motor relay malfunctioning	Reset. If the problem persists, replace the control panel.	•
	XX	XX - Firmware reset (SIGNAL ONLY)		
Service	10	V0 - Request for maintenance inter- vention	Proceed with the scheduled mainte- nance intervention.	
	ND	NO - Operation not permitted	Check that the remote control has not already been stored. Check that the storage module is present.	





WARNING The operations related to point 5 are performed without safety devices. The display parameters can only be adjusted when the automation is idle. The automation automatically slows when approaching the end stops or stop limit switches. At every start-up the control panel receives a RESET and the first operation is performed at reduced speed (automation position acquisition).

- 1- Make a jumper for NC safety contacts.
- 2- Adjust the opening and closing stop limit switches, if any.

NOTE: The limit switches must remain pressed until the operation is completed and placed as shown in the Ditec NEOS installation manual.

- 3- Set the desired opening direction from the **F** T menu.
- 4- Manually move the sliding gate and make sure the entire stroke slides evenly and without friction.
- 5- Switch on and check the automation is operating correctly with the subsequent opening and closing commands (see paragraph 7.2). Check that the limit switches are activated if used.
- 6- Connect the safety devices ΠF_{and} and $\Pi F_{and} \rightarrow 5 \Psi$ (removing the relative jumpers) and check they are working correctly.
- 7- To modify the operation and deceleration speed settings, automatic closing times and thrust on obstacles, consult the menus.
- 8- Connect any other accessories and check they are functioning. WARNING: Ensure that the forces exerted by the door wings are compliant with EN12453-EN12445 regulations.
- 9- If required, store the remote controls using command $\mathbb{R} \square \to \mathbb{S} \mathbb{R}$.
- 10- Once the start-up and check procedures are completed, close the container.



NOTE: in the event of servicing or if the control panel is to be replaced, repeat the start-up procedure.

10. Troubleshooting

Problem	Possible cause	Signal / Alarm	Operation
The automation does not open or close.	No power.	PØ	Check power supply cable.
	Short-circuited accessories		Disconnect all accessories from terminals 0-1 (a voltage of 24V= must be present) and reconnect them one at a time. Contact Technical Service
	Blown line fuse.	PØ	Replace fuse.
	Safety contacts are open.	- 6 - 8	Check that the safety contacts are closed correctly (NC).
	Safety contacts not correctly connected or self-controlled safety edge not functioning correctly.	АЙ АЗ I-6 I-8	Check connections to terminals 6-8 on control panel and con- nections to the self-controlled safety edge.
	SAFETY SWITCH release mi- croswitch open.	SM	Check that the hatch is closed correctly and the microswitch makes contact.
	Photocells activated.	- 6 - 8	Check that the photocells are clean and operating correctly.
	The automatic closing does not work.		Issue any command. If the problem persists, contact Technical Service
		A 7 1-9	Check terminal 9 on the con- trol panel.
	Mechanical fault	E M M B	Check the rack or transmis- sion chain, and/or the me- chanical parts.
	Faulty motor	MЧ MB	Check motor connection, if the problem persists, contact Technical Service.
	Faulty control panel	ITER BHM LIR IER	Replace the control panel.

Problem	Possible cause	Signal / Alarm	Operation
The external safety devices are not activated.	Incorrect connections be- tween the photocells and the control panel.		Check that $l \cdot 5 / l \cdot 8$ is displayed Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board. Check the $P \rightarrow J 5$ and $P P$ $\rightarrow J 8$ setting
The automation opens/clos- es briefly and then stops.	There is a presence of friction.	M9 IC MI	Manually check that the auto- mation moves freely and check the R 1/ R 2 adjustment Contact Technical Service
The remote control has lim- ited range and does not work with the automation moving.	The radio transmission is impeded by metal structures and reinforced concrete walls.		Install the antenna outside.
			Replace the transmitter bat- teries.
The remote control does not work	No storage module or incor- rect storage module.	RØ RJ RS	Switch the automation off and plug in the correct storage module.
		<u> </u>	Check the correct memorisa- tion of the transmitters on the built-in radio. If there is a fault with the radio receiver that is built into the control panel, the remote control codes can be read by removing the storage module.
The flashing light is not working	Bulb burnt or flashing light wires detached or short-cir-cuited.	89	Check the bulb and/or wires. Contact Technical Service
The "gate open" indicator light doesn't work	Bulb burnt or wires detached or short-circuited.	83	Check the bulb and/or wires. Contact Technical Service

11. Examples of sliding gate applications

When the CS12M control panel is used for sliding automation applications, the following connections can be made:



- set the correct opening direction:



Example 1 - Door wing stops against mechanical end stops (standard setting)



Example 2 - Door wing stops against limit switches (setting with standard limit switches installed)



With these settings, if an obstacle is detected while opening, the door wing stops and performs a disengagement operation whereas during a closing operation, the door wing reopens.

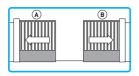
Example 3 - Door wing stops against mechanical end stops and reverses motion if an obstacle is detected



In this configuration, the door wing stops against its respective mechanical closing and opening end stop. In the event of obstacle detection before the activation of the proximity limit switch while opening, the door wing stops, performing a disengagement operation; after the proximity limit switch is activated, the door wing stops against the obstacle.

In the event of obstacle detection during closing and before the activation of the proximity limit switch, the door wing reopens; after the proximity limit switch is activated, the door wing stops against the obstacle.

12. Examples of application for parallel automations



With the parallel connection, the opening, closing, reopening when an obstacle is encountered during closing and flashing of flashing lights are synchronised.

The obstacle during opening and safety devices (safety edges) must be installed each one on its own door and act independently of each other.

Establish which one is the MASTER automation and which one is the SLAVE automation. The MASTER automation could be the one you decide to open partially (1-20 connected).

- 1. Disconnect connectors 1-G1-G3 from the control panels.
- Set the following parameters on both automations via the display:

Setting advanced parameters

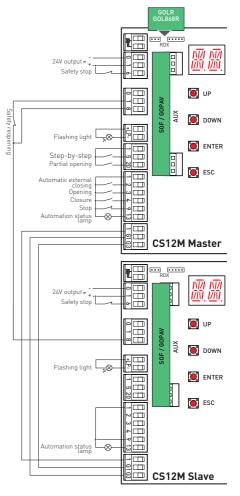
AT > AA	
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Setting input mode P > G > S > S YSetting automation parallel mode P > PR > 0 1 Set BC > SO > OF.

NOTE: if $\overline{SO} > \overline{ON}$, if one door is closed and the other is closing, a command 1-8 causes the movement of the moving door to stop without reopening the closed door.

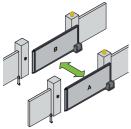
You are advised NOT to change the setting of parameter $\mathbb{RP} > 5M > 00$.

- 3. Reconnect connectors 1-G1-G3.
- 4. Enable automatic closing only on the MASTER automation with $\mathbb{B}\mathbb{C} > \mathbb{A}\mathbb{C} > \mathbb{O}\mathbb{N}$. or with $\mathbb{B}\mathbb{C} > \mathbb{A}\mathbb{C} > \mathbb{O}\mathbb{N}$ or with $\mathbb{B}\mathbb{C} > \mathbb{O}\mathbb{N}$.
- 5. Set the desired automatic closing time (B > T C) on the MASTER automation high enough to allow the SLAVE automation to fully open.
 With these settings the automations will perform the closing operation at the same time as the time set with the MASTER automatic TC expires).
- 6. Install only one ZENRS radio receiver ZENPRS on the MASTER automation.



ΕN

13. Examples of application for interlocked one-way or two-way transit automations without presence detection



With these settings, command 1-3 starts an opening operation of the automation that it is connected to which will close after the time set with $\mathbf{B}\mathbf{R} > \mathbf{T}\mathbf{C}$

Once the delay time set with $\mathbf{P} > \mathbf{T} \mathbf{O}$ has elapsed, the other automation will open and will close after the time set with **H** >TC

Commands 1-5, 1-4 and 1-20 can be used in special cases, for example, to allow very long vehicles to pass through.

Command 1-9 can interrupt the interlock sequence, i.e., cancel the command given to automation B.

Disconnect connectors 1-G1-G3 from the control panels.

1. Set the following parameters on both automations via the display: Setting advanced parameters

 $AT > AA \underset{0.2^{-}}{\blacksquare} \rightarrow (\square K)$

Setting input mode 8P>61>5Y Setting automation parallel mode AP > PA > 02

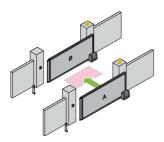
- 3. Reconnect connectors 1-G1-G3.
- 4. Set **BC** > **RM** > **I - 3** on both automations.

NOTE: we recommend storing two different keys and not the same transmitter key (example: key 1 opens automation A and key 2 opens automation B).

- 5. If necessary, enable automatic closing $\mathbf{B}\mathbf{C} > \mathbf{A}\mathbf{C} > \mathbf{D}\mathbf{N}$ on both automations.
- M/L M/ 24V output = _ 1711 1711 • [] Safety stop 🖲 UP Safety reopening AUX 🚺 DOWN + 🗆 Flashing light <u>-</u>8 ENTER -1 □ 5 □ 2 💓 ESC ₽□ Openina Stop Automation status 800 **CS12M** RDX NĪ/ M 24V output V = ĪĀ Safety stop 💓 UP Safety reopening AUX Down + Flashing light -8 ENTER 20 🖲 ESC ωΠ 4 9 Stop Automation status 900 **CS12M**
- 6. Set the desired automatic closing time $[\mathbb{B}\mathbb{R} > T\mathbb{C}]$ on both automations. 7. Set the delay time $\mathbb{R}\mathbb{P} > T\mathbb{O}$ [from 0 to 30 s] on both automations.
- 8. The reservation function $\mathbb{B} \mathbb{C} > \mathbb{P} \mathbb{G} > \mathbb{O} \mathbb{N}$ can be enabled on both automations if a vehicle arrives from the same direction while another one is still in transit.

A second opening command is stored and executed as soon as the cycle in progress terminates. NOTE: we recommend using the reservation function only for one-way transmit or twoway transit with limited flow.

14. Examples of application for interlocked one-way transit automations with presence detection



With these settings, command 1-3 starts an opening operation of the MASTER automation which will close after the time set with **BR** > **TC** only when the vehicle activates the detection device installed between the two automations (e.g. magnetic loop).

Once the delay time set with AP > T has elapsed, the SLAVE automation will open and will close after the time set with BA > T C. Commands 1-5, 1-4 and 1-20 can be used in special cases, for example, to allow very long vehicles to pass through.

Command 1-9 can interrupt the interlock sequence, i.e., cancel the command given to the SLAVE automation.

- 1. Disconnect connectors 1-G1-G3 from the control panels.
- 2. Set the following parameters on both automations via the display: Setting advanced parameters

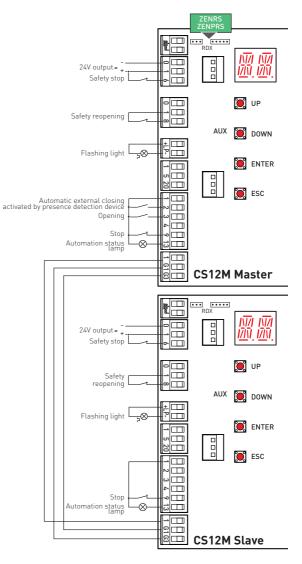


Setting input mode AP > 5 1 > 5 Y Setting automation parallel mode

AP > PA > 03

With this setting the SLAVE automation will not close until contact 1-2 of the MASTER automation is activated.

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- 3. Reconnect connectors 1-G1-G3.
- 4. Set \mathbb{B} > \mathbb{R} M > \mathbb{I} \mathbb{B} on the MASTER automation.
- 5. Enable automatic closing on the MASTER automation with $\mathbb{B}\mathbb{C} > \mathbb{H}\mathbb{C} > \mathbb{H}\mathbb{C} > \mathbb{H}\mathbb{C}$ and on the SLAVE automation with $\mathbb{B}\mathbb{C} > \mathbb{H}\mathbb{C} > \mathbb{D}\mathbb{N}$.
- 7. Although it is not obligatory, we recommend installing only one ZENRS radio receiver ZENPRS on the MASTER automation.
- 8. Set the delay time $\mathbb{RP} > \mathbb{TO}$ (from 0 to 30 s) on the MASTER automation.
- 9. The reservation function BC > PG > DN can be enabled on the MASTER automation if a vehicle arrives from the same direction while another one is still in transit.
 A second opening command is stored and executed as soon as the cycle in progress termi-

A second opening command is stored and executed as soon as the cycle in progress terminates.

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