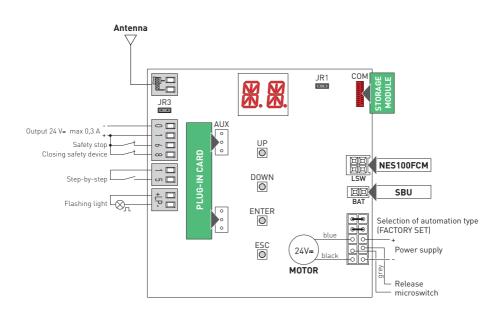




Ditec CS12E

Control panel installation manual for Ditec NEOS automations (Translation of the original instructions)



www.ditecautomations.com

Index

	Subject	Page
1.	General safety precautions	3
2.	EC Declaration of Conformity	4
3.	Technical specifications	4
4.	Commands	5
4.1	Inserting plug-in card (AUX)	6
4.2	Self-controlled safety edge	6
5.	Outputs and accessories	8
6.	Selections	9
7.	Settings	9
7.1	Switching on and off	9
7.2	Key combinations	10
7.3	Main menu	11
7.4	Second level menu - AT (Automatic Configurations)	12
7.5	Second level menu - BC (Basic Configurations)	14
7.6	Second level menu - BA (Basic Adjustment)	16
7.7	Second level menu - RO (Radio Operations)	20
7.8	Second level menu - SF (Special Functions)	23
7.9	Second level menu - CC (Cycles Counter)	25
7.10	Second level menu - AP (Advanced Parameters)	27
8.	Display visualisation mode	31
8.1	Display of automation status	31
8.2	Display of safety devices and commands	33
8.3	Display of alarms and faults	35
9.	Start-up	38
10.	Troubleshooting	39
11.	Examples of application	41



ΕN

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 3mm 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 com-

ponent 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 CS12E 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 CS12E 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



3. Technical specifications

Description	NES400EH	NES600EH	NES600EHSF
Power supply	230V~ 50/60Hz	230V~ 50/60Hz	230V~ 50/60Hz
Motor output	24V 🛲 14A max	24V 🛲 16A max	24V 🛲 16A max
Accessories power supply	24V 🛲 0,3A max	24V 🛲 0,3A max	24V 🛲 0,3A max
Operating temperature	-20 °C +55 °C	-20 °C +55 °C	-20 °C +55 °C
Storable radio codes	100 200 [BIXMR2]	100 200 [BIXMR2]	100 200 [BIXMR2]
Radio frequency	433,92MHz	433,92MHz	433,92MHz



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

IP2162EN

4. Commands

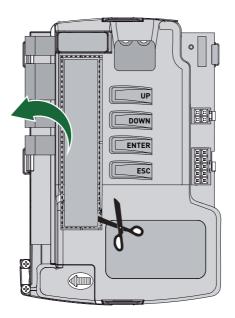
Command		Function	Description
1 5	NO	STEP-BY-STEP WITH AUTOMATIC CLOSING	When selecting $\mathcal{B} \longrightarrow \mathcal{L} \to \mathcal{L} \to \mathcal{L} \to \mathcal{L}$, closing the contact starts a sequential opening or closing operation: opening-stop-closing-opening. WARNING: if automatic closing is enabled, the duration of the stop can be selected by selecting $\mathcal{B} \longrightarrow \mathcal{L} \to \mathcal{L}$
		STEP-BY-STEP WITHOUT AUTOMATIC CLOSING	When selecting $\mathbb{B} \subseteq \mathcal{F} \subseteq \mathcal{F} \to \mathcal{F}$, closing the contact starts a sequential opening or closing operation: opening-stop-closing-opening.
		OPENING WITH AUTOMATIC CLOSING	When selecting $\mathbb{B} \cap \mathbb{C} \to \mathbb{C} \to \mathbb{C}$, closing the contact activates an opening operation.
		OPENING WITHOUT AUTOMATIC CLOSING	When selecting $\mathbb{B} \subseteq \mathcal{F} \subseteq \mathcal{F} \to \mathcal{F}$, closing the contact activates an opening operation. NOTE : Once the automation stops, command 1-5 performs the opposite operation to the one performed before the stop.
1 <u> t</u> 6	NC	CLOSING SAFETY DEVICE	When selecting $\mathbb{B}[\rightarrow 6 4 \rightarrow 1 \cdot 6]$, opening of the safety contact stops and prevents any movement. NOTE : to set different safety contact functions, see the $\mathbb{P}P \rightarrow \mathbb{S}M$ parameter settings.
1 6	NO	CLOSING	When selecting $\mathbf{B} \subset \rightarrow 6 \lor 4 \rightarrow 1 \cdot \lor 4$, closing the contact activates a closing operation.
1 8	NC	CLOSING SAFETY DEVICE	Opening the safety contact triggers a reversal of the movement (reopening) during the closing operation. When selecting $\mathbb{B} \cap \mathbb{C} \to \mathbb{C} \cap \mathbb{N}$, with the automation idle, opening of the contact prevents any operation. When selecting $\mathbb{B} \cap \mathbb{C} \to \mathbb{C} \cap \mathbb{C}$, with the automation idle, opening of the contact only prevents closing.



ΕN

4.1 Inserting plug-in card (AUX)

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

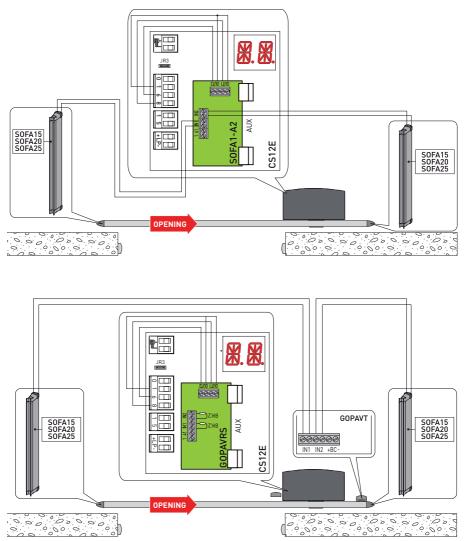


4.2 SOFA1-SOFA2 or GOPAVRS self-controlled safety edge

Command	Command		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 <u> t </u>	NC	SAFETY STOP	When selecting $PP \rightarrow JG \rightarrow S$ 4. 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 <u> t </u> 8	NC	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).

ΕN

Examples of installation of self-controlled safety edge



IP2162EN

5. Outputs and accessories

Output	Value Accessories	Description
	24V 0.3 A	Accessories power supply. External accessories power supply output. NOTE : the maximum absorption of 0.3 A corresponds to the sum of all terminals 1.
	GOL148REA (433, 92 MHz)	Antenna connection (433, 92 MHz). If the inside radio receiver is used, connect the supplied antenna wire (173 mm), or alternatively the GOL148REA antenna, using a coaxial cable, type RG58.
+LP-	FL24 FLM 24V 25 W	Flashing light. The pre-flashing settings can be selected from the third level menu $\mathbb{P} \to \mathbb{W}$ and/or $\mathbb{P} \to \mathbb{W}$.
AUX		The control panel has a housing for plug-in cards. The action of the card can be selected by selecting $\mathbb{B} \longrightarrow \mathbb{R}^m$. WARNING: the plug-in cards must be inserted and removed with the power supply disconnected.
СОМ	BIXMR2	This allows the functioning configurations to be saved using the function $SF \rightarrow SV$. The saved configurations can be recalled using the function $SF \rightarrow RE$. 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 re- moved with the power supply disconnected.
	NES100FCM	Magnetic limit switch kit (optional only for Ditec NES400).
EE BAT	SBU 2x12 V 2Ah	 BAT - Batteries functioning. The batteries are kept charged when the power supply is on. If the power supply is off, the panel is powered by the batteries until the power is re-establish or until the battery voltage drops below the safety threshold. The panel turns off in the last case. WARNING: the batteries must always be connected to the con- trol panel for charging. Periodically check the efficiency of the batteries. NOTE: the operating temperature of the rechargeable batteries is approximately +5°C/+40°C.
		Mains power supply, motor, release microswitch and automa- tion wiring connection.

IP2162EN

(EN

6. Selections

Jumper	Description	OFF	ON
JR1	Display mode selection.	Display mode. Only the values and pa- rameters present can be displayed.	Maintenance mode. Only the values and parameters pre- sent can be displayed and modified. Going into maintenance mode is indi- cated by the permanent switching on of the right-hand point on the display.
JR3	Built-in radio receiver.	Disabled.	Enabled.

7. Settings



Some parameters of the NeoS SUPERFAST have been limited for functional safety reasons (given the maximum reachable speed). For special needs, contact technical assistance.



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.



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

7.1 Switching the display on and off

The procedure to switch on the display is as follows:



ENTER

- 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.

IP2162EN

7.2 Key combinations

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



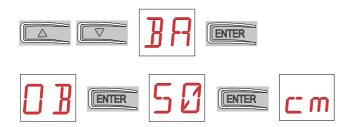
• Simultaneous pressing of the keys \downarrow and ENTER performs a closing command.



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



- Keeping press the UP \uparrow or DOWN \downarrow key, fast menu scrolling begin. To stop 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).



EN

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.
RD	RO - Radio Operations. The menu allows you to manage the radio operations of the control panel.
5F	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.
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.

EN

7.4 Second level menu AT (Automatic Configurations)

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

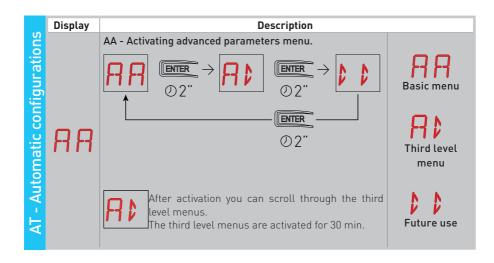


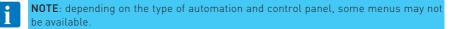
• press the ENTER key to confirm



	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 standard parameters:AC - enabling of automatic closing: disabledC5 - step-by-step/opening command operation: step-by-stepRM - remote control operation: step-by-stepAM - AUX plug-in card operation: step-by-stepSS - Selection of automation status at start-up: open
	H 1	H1 - Predefined setting, residential use 1.This selection loads predefined values for certain standard parameters:AC - enabling of automatic closing: enabledTC - setting of automatic closing time: 1 minuteC5 - step-by-step/opening command operation: step-by-stepRM - remote control operation: step-by-stepAM - AUX plug-in card operation: step-by-stepSS - Selection of automation status at start-up: closed
	[]	C0 - Predefined setting, condominium use 0.This selection loads predefined values for certain standard parameters:AC - enabling of automatic closing: enabledTC - setting of automatic closing time: 1 minuteC5 - step-by-step/opening command operation: openingRM - remote control operation: openingAM - AUX plug-in card operation: openingSS - Selection of automation status at start-up: closed
	R]]	RD - Resetting of general settings (SETTINGS RESET). $\bigcirc 2^{"}$

IP2162EN





ΕN

7.5 Second level menu - BC (Basic Configurations)

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



• press the ENTER key to confirm

ΕN



	Display	Description		
BC - Basic configurations	RC	AC - Enabling of automatic closing. ON - Enabled OF - Disabled		۵F
	22	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 57 to the maximum value and reduces the ac- celeration time 7 fl to the minimum value. NOTE: for correct operation, the control panel must be exposed to the same ambient temperature as the motors.	0N	<u>OF</u>

IP2162EN

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

	Display	Description		
	HR	HR - Enabling of operator present function ON - Enabled OF - Disabled NOTE: Set HR → ON only if 64 → J-4 and 65 → J-3.	0 N	<u>OF</u>
	64	 64 - Functioning of safety stop/closing command. 1-4 - Closing 1-6 - Safety stop 	- 4	<u> - 6</u>
	٢5	C5 - Step-by-step/opening command operation. 1-5 - Step-by-step 1-3 - Opening	1-5	I- 3
0	RM	RM - Radio receiver operation. 1-5 - Step-by-step 1-3 - Opening	1-5	I- 3
BC	RM	AM - AUX plug-in card operation. 1-5 - Step-by-step 1-3 - Opening	1-5	I- 3
	РP	PP - Setting step-by-step sequence from command 1-5. ON - Opening-Stop-Closing-Stop-Opening OF - Opening-Stop-Closing-Opening		<u>DF</u>
	55	 S5 - Duration of STOP in step-by-step sequence from command 1-5. ON - Permanent OF - Temporary 		DF
	נ ס	 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 vice versa performs an automatic RESET of the card. 	LF	RT

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	ΜT	 MT - Display of type of automation. N3 - Motor with 300kg capacity N4 - Motor with 400kg capacity N6 - Motor with 600kg capacity SF - Motor SUPERFAST with 600kg capacity NOTE: this parameter is DISPLAY only. 	N 3 N 6	
	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. 	[] []' ' → 1'0	21
	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 		
	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. 	نگ ک • • ۱ : ۵۰۵	2
	ŀ ₽	 VA - Setting of opening speed. [cm/s] NOTE: 24 - Maximum with MT → N6 25 - Maximum with MT → N3 or N4 40 - Maximum with MT → SF 		5

IP2162EN

	Display	Description	
tment	νE	VC - Setting of closing speed. [cm/s] NOTE: 24 - Maximum with MT → N5 25 - Maximum with MT → N3 or N4 40 - Maximum with MT → SF	1 2 2 5 15 NeoS SUPERFAST 1 2 4 2 30
- Basic adjustment	R 5	 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 10 cm. 00 - Minimum thrust 99 - Maximum thrust 	0 ,99 50
BA	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 	0 ,99 ₅₀



WARNING: 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

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

	Disp	olay	Description	
]]	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 5 Ø 40
	M	Ρ	 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	Ţ	ST - Adjustment of start time. [s] 0.5 - Minimum 3.0 - Maximum NeoS SUPERFAST 1.0 - Minimum 4.0 - Maximum	2.0 NeoS SUPERFAST 1.0, 4.0 3.0
BA	Ţ	Я	TA - Adjustment of acceleration time. [s] (start speed is 75% of VA - V() 0.5 - Minimum 2.0 - Maximum NeoS SUPERFAST 1.0 - Minimum 4.0 - Maximum	0.5,2.0 1.5 NeoS SUPERFAST 1.0,4.0 3.0
	Ţ	ה	TD - Adjustment of deceleration time. [%] 10 - Minimum 99 - Maximum NeoS SUPERFAST 10 - Minimum	10999 75 NeoS SUPERFAST
		Ľ	75 - Maximum NOTE NeoS SUPERFAST: In some cases, on light gates, it is possible to set this value above the indicated maxi- mum value. If necessary, contact technical assistance.	10,75 50
	٥		 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 	6 5,9 9 40
		B	 NOTE: reduce the deceleration space if there is a series of quick vibrations (chattering) in heavy gates installed with a slight incline. NeoS SUPERFAST: 75 - Minimum 99 - Maximum NOTE NeoS SUPERFAST: In some cases, on light gates, it is 	NeoS SUPERFAST
			possible to set this value above the indicated minimum value. If necessary, contact technical assistance.	

	Display	Description	
		OB - Adjustment of deceleration distance during closing. [cm] Indicates the distance from the end of the closing stroke where the deceleration ramp begins. O5 - Minimum 99 - Maximum	5 ,99 40
	CB	 NOTE: reduce the deceleration space if there is a series of quick vibrations (chattering) in heavy gates installed with a slight incline. NeoS SUPERFAST: 75 - Minimum 99 - Maximum NOTE NeoS SUPERFAST: In some cases, on light gates, it is possible to set this value above the indicated minimum value. If necessary, contact technical assistance. 	NeoS SUPERFAST
	оп	 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 	02, 10 03
BA		NOTE : gradually increase the approach speed if there is a series of quick vibrations (chattering) in heavy gates installed with a slight incline.	NeoS SUPERFAST
	or	 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 	02 · 10
	ΡC	 10 - Maximum NOTE: gradually increase the approach speed if there is a series of quick vibrations (chattering) in heavy gates in- stalled with a slight incline. 	NeoS SUPERFAST
	00	 00 - Obstacle detection limit during opening [cm] Indicates the distance from the end of the opening stroke after which each obstacle is considered a stop. 05 - Minimum 99 - Maximum NOTE: This parameter is only active if ¬P → F ¬ → N□ 	2 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 $\mathbb{AP} \rightarrow \mathbb{FC} \rightarrow \mathbb{ND}$	2 5,9 9 40



IP2162EN

WARNING: 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

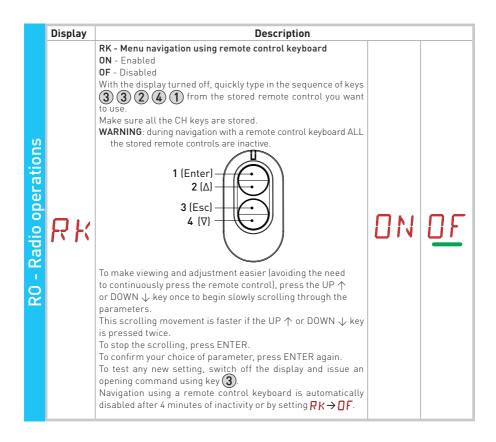


• press the ENTER key to confirm

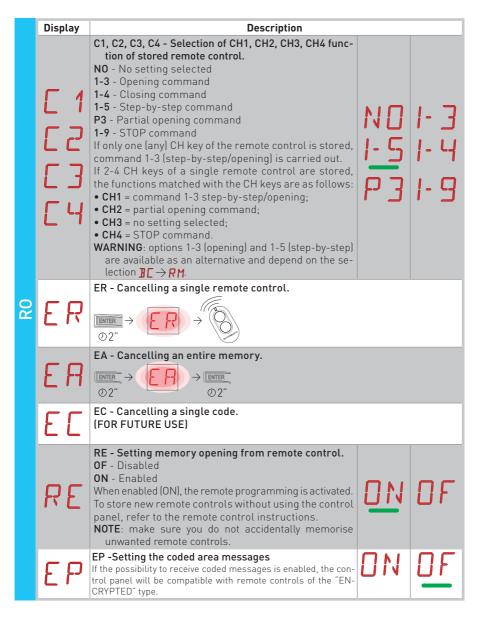
ΕN



	Display	Description
Radio operations	SR	SR - Remote control storage. You can directly access the Remote control storage menu even with the dis- play 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. \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow
1	ТХ	TX - Visualisation of counter showing remote controls stored $\overrightarrow{P} \rightarrow \overrightarrow{D} \overrightarrow{D} \rightarrow \overrightarrow{15}_{16 \text{ remote controls (example) o]}}$
RO	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. 200 remote control 02^{max} 100 or 200 remote control 02^{max} 000 remote controls 20 - 200 storable remote controls 000 remote controls 10 - 100 storable remote controls



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



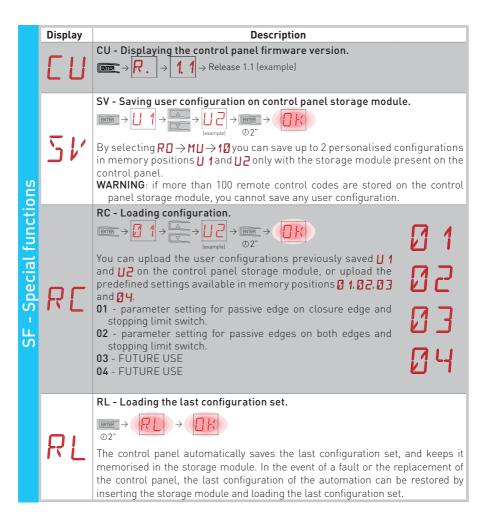
7.8 Second level menu - SF (Special Functions)

• 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 A T → A A enabled)

	Display Description	
SF	5P	SP - Setting the password. $\begin{array}{c} \hline \label{eq:setting} \textbf{SP - Setting the password.} \\ \hline \end{tabular} \overrightarrow{Prevents} \rightarrow \overbrace{O2''} \rightarrow \overbrace{O2'''} \rightarrow \overbrace{O2''} \rightarrow $
	ΙP	IP - Inserting the password. $\boxed{\text{IPE}} \rightarrow \boxed{2} \rightarrow \boxed{2} \rightarrow \boxed{2} \rightarrow \underbrace{2} \rightarrow $
	ΕIJ	EU - Cancellation of user configurations and last configuration set in the storage module. $\boxed{\texttt{EVER}} \rightarrow \boxed{\texttt{EU}} \rightarrow \boxed{\texttt{O}2^{"}}$

EN

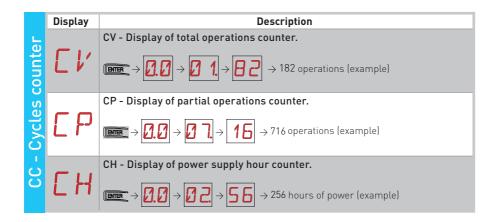
7.9 Second level menu - CC (Cycles Counter)

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



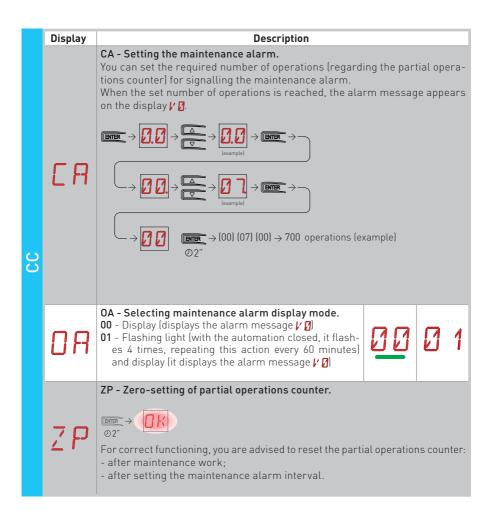
• press the ENTER key to confirm





ΕN

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



7.10 Second level menu - AP (Advanced Parameters)

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



• press the ENTER key to confirm



	Display	Description	
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) 	NES400EH NES600EH/SF
	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) 	NES400EH NES600EH/SF
AP - Advanced	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 10 cm) S41 - Safety edge with safety test (if contact 1-6 opens, after stopping, there is a disengagement of 10 cm) PH - Photocells P41 - Photocells with safety test 	NO SE S41 PH P41
]8	D8 - Selection of device connected to terminals 1-8.NO -NoneSE -Safety edgeS41 -Safety edge with safety testPH -PhotocellsP41 -Photocells with safety test	NO 5E 541 PH P41

ပ်	Display	Description		
AP - Advanced Parameters	11 5	 DS - Setting of display visualisation mode. O0 - No display O1 - Commands and safety devices with radio test (see paragraph 8.2). Display of count down to automatic closing. O2 - Automation status (see paragraph 8.1) O3 - Commands and safety devices (see paragraph 8.2) 	00	0 0 3



ΕN

WARNING: 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.

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

	Display	Description		
]][]	 D0 - Setting of disengagement on stop during opening. [mm] 00 - Minimum 10 - Maximum NOTE: Not active if F A → 5 X 	02 0 0 1 0	
	JC	DC - Setting of disengagement on stop during closing. [mm] 00 - Minimum 10 - Maximum NOTE: Not active if F C → 5 X	02 02	
		OT - Selection of type of obstacle. 00 - Overcurrent or door stopped 01 - Overcurrent 02 - Door stopped	00 <u>0 1</u> 02	
	ER	CR - Correction to calculated speed. [mm/s] DO NOT USE	9,+ 9	
AP	R 9	R9 - Enabling automatic closing after command 1-9 via radio (STOP). ON - Enabled OF - Disabled When enabled (ON), after a command 1-9 via radio, the automation carries out automatic closing (if enabled), after the set time.		
	5 M	 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). When the contact closes again, the interrupted operation continues. O2 - During the 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, 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). 	00 02 04 05	

	Display	Description	
AP	TN	TN - Setting of intervention temperature for NIO anti- freeze system. [°C] Adjustment of the working temperature of the control pan- el. The value does not refer to ambient temperature.	- 9,20 5
	Ţ₿	TB - Display of working temperature of control panel. DO NOT USE	
	N 🛛	 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. 00 - Minimum 05 - Maximum 	0 0'0 5 00
	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 00
	TS	TS - Setting of renewal of automatic closing time af- ter safety device release. [%] 00 - Minimum 99 - Maximum	Ø Ø,9 9 99
	V ₽	VR - Setting of learning speed. [cm/s]	05 NeoS SUPERFAST 5 10 08



ΕN

WARNING: 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.

8. Display visualisation mode



NOTE: 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.

$\texttt{AP} \rightarrow \texttt{J} \texttt{S} \rightarrow \texttt{O2}$

Display	Description
ΓΞ	Automation closed.
L.I	Automation closed. Release door open.
	Automation open.
. 1	Automation open. Release door open.
Γ	Automation stopped in intermediate position.
<u> </u>	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.

31

Display	Description
_]	Automation closed.
	Automation closed. Release door open.
1	Automation open.
1.	Automation open. Release door open.
]	Automation stopped in intermediate position.
].	Automation stopped in intermediate position. Release door open.
0 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

i

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

$\begin{array}{c} \mathsf{AP} \rightarrow \texttt{]} \ \texttt{S} \rightarrow \texttt{0} \ \texttt{1} \\ \mathsf{AP} \rightarrow \texttt{]} \ \texttt{S} \rightarrow \texttt{0} \ \texttt{3} \end{array}$

Display	Description
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.
P 3	P3 - Partial opening command.
3P	3P - Opening command with operator present.
ЧР	4P - Closing command with operator present.
R X	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 $\mathbb{R} \square \rightarrow \mathbb{E} \mathbb{P}$
[×	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
50	O2 - 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
52	S2 - Detection of stop during opening
<u>5</u> W	SW - Release door open. When the release door is closed, the control panel performs a RESET (alarm X). It is possible to ignore the reset by holding down the ESC & DOWN keys for 3 seconds until the SW stops flashing. If the RESET is disabled, make sure not to move the gate manually. NOTE: If you return to the menu, the reset is reactivated.
RV	RV - Enabling/disabling of built-in radio receiver via JR3.
MQ	MQ - Learning operation of mechanical end stops in progress.
НŢ	HT - Heating of the motors (NIO function) in progress.
יי רל	hr - Indicates OPERATOR PRESENT mode (hold to run).
1 ل	J1 - Variation of the JR1 jumper status.

IP2162EN

8.3 Display of alarms and faults



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			
	MH	M4 - Motor short circuit	Check the motor is correctly con- nected.			
			Check the motor is working properly.			
	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.			
	MB	MB - Absence of motor during an op- eration.	Check connection of motor. Check motor brush contacts. If the problem persists, contact Tech- nical Support.			
	MJ	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 closing limit switch.			
	MI	MI - Detection of fifth consecutive ob- stacle.	Check for the presence of permanent obstacles along the stroke of the automation.			
	ML	ML - Inverted limit switches	Check the positioning and connection of the limit switches. Also check the motor connection.			
Power supply operations alarm	RØ	R0 - Insertion of a storage module con- taining over 100 stored remote controls. WARNING: R 0 → MU → 20 is set au- tomatically. The alarm is displayed 3 times only.	To save the system configurations on the storage module, delete any stored remote controls and bring the total to less than 100. Set $\mathbb{R} \bigcirc \rightarrow \mathbb{M} \bigcup \rightarrow \mathbb{1} \bigcirc$.			

Type of alarm	Display	Description	Operation			
supply is alarm	RJ	R3 - Storage module not detected (with JR3=ON).	Insert a working storage module or set JR3=0FF.			
Power supply operations alarm	RS	R5 - Storage module not working (re- gardless of JR3)	Replace the storage module.			
		A0 - Failure of test of safety sensor on contact 6.	Check that device SOFA1-A2/GOPAV is working correctly.			
L L	HIJ		If the supplementary card is not inserted, check that]] 6 is not set to 5 4// P 4/			
ries ala		A3 - Failure of test of safety sensor on contact 8.	Check that device SOFA1-A2/GOPAV is working correctly.			
Accessories alarm	F- F-1		If the supplementary card is not inserted, check that $\mathbf{D} = \mathbf{i} \cdot \mathbf{s} \cdot \mathbf{s} \cdot \mathbf{i} \cdot \mathbf{s} \cdot $			
	89	A9 - Flashing light output short circuit alarm	Check that the flashing light is working properly.			
Power supply alarm	P 1	P1 - Microswitch voltage too low	Check the control panel is powered correctly.			
	I7	17 - Internal parameter outside limits error	Reset. If the problem persists, contact Tech- nical Support.			
	I8	18 - Program sequence error	Reset. If the problem persists, contact Tech- nical Support.			
Control panel nternal alarm	IA	IA - Internal parameter error (EE- PROM)	Reset. If the problem persists, contact Tech- nical Support.			
Cor	IB	IB - Internal parameter error (RAM)	Reset. If the problem persists, contact Tech- nical Support.			
	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, contact Tech- nical Support.			
	ΙH	IH - Overcurrent with motor switched off alarm	Reset. If the problem persists, contact Tech- nical Support.			

Type of alarm	Display	Description	Operation
Control panel internal alarm	IM	IM - Shortcircuited motor MOSFET alarm	Reset. If the problem persists, contact Tech- nical Support.
	ID	10 - Interrupted power circuit (motor MOSFET open)	Reset. If the problem persists, contact Tech- nical Support.
	IR	IR- Motor relay malfunctioning	Reset. If the problem persists, contact Tech- nical Support.
	XX	Firmware reset (SIGNAL ONLY)	
Service	l' []	V0 - Request for maintenance interven- tion	Proceed with the scheduled mainte- nance intervention.

(EN)

9. Start-up



NeoS SUPERFAST

Pay attention to the adjustment of the slowdown spaces and braking times! Make adjustments gradually, and only after having completed at least three complete maneuvers, to allow the control panel to calibrate correctly and detect any friction during maneuvers.

- 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 🖪 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.



WARNING

The operations 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).

- 6- Connect the safety devices]] [] and]] [] \Rightarrow 5 4] (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 $\mathbb{R} \square \rightarrow \mathbb{S} \mathbb{R}$.
- 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	Alarm signalling	Operation
The automation does not open or close.	No power.		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.		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.	A0 A3 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
	Mechanical fault	EM	Check the rack or transmis- sion chain, and/or the me- chanical parts.
	Faulty motor	МЧ МЭ	Check motor connection, if the problem persists, contact Technical Service.
	Faulty control panel	I TO I TO I TO I TO I TO I R	Contact Technical Service.
The external safety devices are not activated.	Incorrect connections be- tween the photocells and the control panel.		Check that $I \cdot 5 / I \cdot 8$ is displayed Connect NC safety contacts together in series and remove any jumpers on the control panel terminal board. Check the $PP \rightarrow]B$ and $PP \rightarrow]B$ 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 \bigcirc 1/ \bigcirc 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.
			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

11. Examples of sliding gate applications

- set the correct opening direction:

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

📧 🖙 A P Gree 🖾 🖙 F A Gree N 🛛 Gree 🧃	IK
]K)

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

Connect the limit switches to the terminal	
Set	
]
]

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.

K

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

Conne	ect the li	mit sv	vitches	s to th	ne termi	nal				
Set						l				
		7 P 🛛	ENTER	Δ		⁻ R) X	ENTER	0ĸ
		790	ENTER	Δ		Ē	ENTER	X	ENTER	0K
1	<i>c</i> ·									

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.

All the rights concerning this material are the exclusive property of ASSA ABLOY Entrance System AB. Although the contents of this publication have been drawn up with the greatest care, ASSA ABLOY Entrance System AB cannot be held responsible in any way for any damage caused by mistakes or omissions in this publication. We reserve the right to make changes without prior notice.

Copying, scanning and changing in any way are expressly forbidden unless authorised in writing by ASSA ABLOY Entrance System AB.



ASSA ABLOY Entrance Systems AB Lodjursgatan 10 SE-261 44, Landskrona Sweden