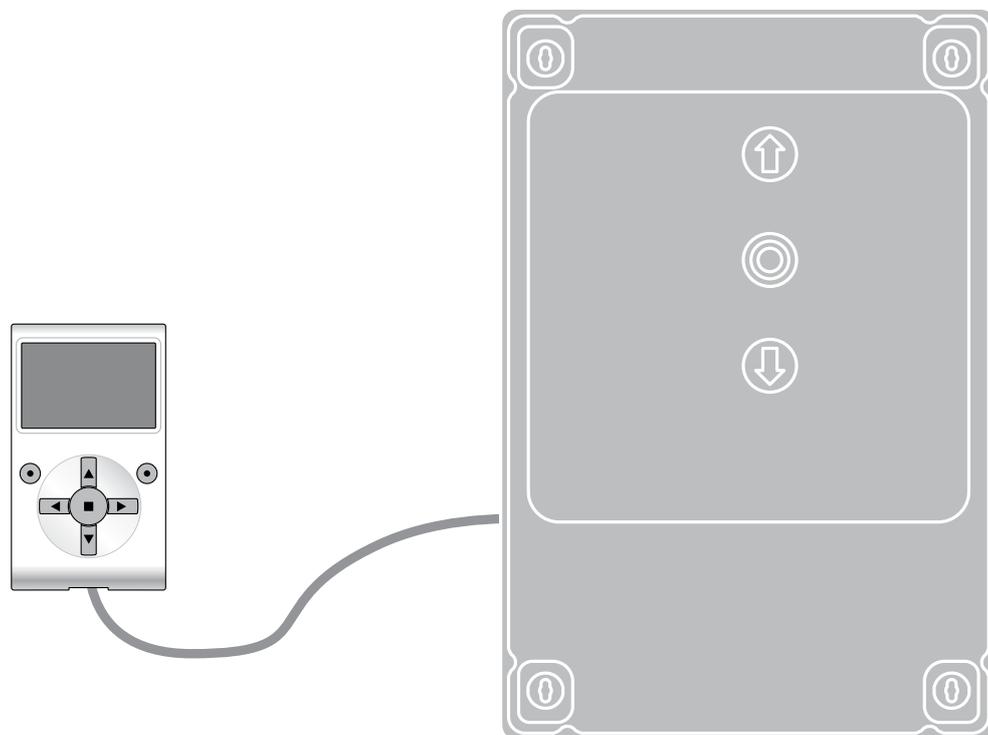


D - PRO ACTION

CE



Programmable functions

using the Oview programmer

COMMON FUNCTIONS

Name
This parameter enables the user to assign the automation with a name other than the original, to facilitate identification (e.g. northern gate). A name comprising maximum 24 characters, including spaces, is admitted.
Series
This parameter can be set with a value from 0 to 63; the factory setting is "0". The series is a number that has to be assigned to each gearmotor, receiver or other device potentially connectable on a BusT4 network, to define its "classification area". Subsequently, when using automations in a complex system, all devices with the same series number can be controlled simultaneously.
Address
This parameter can be set with a value from 1 to 128; the factory setting is "2" for Receivers and 3 for Control Units. The address is a number that has to be assigned to each gearmotor, receiver or other device potentially connectable on a BusT4 network, to distinguish it from other devices in a series. Therefore all devices within a series must have a different address from one another.
Group
This parameter can be set with a value from 1 to 14, or "None"; the factory setting is "None". The function enables the user to assign a number to a device to be controlled (for example a gearmotor or other device potentially connectable to a BusT4 network), which enables this device to belong to a specific "command group". Several devices, even if they belong to different series, can form part of the same group. Up to 14 groups of devices can be created and, in particular, the same device may be inserted in 4 different groups. In a device network, use of this function enables: - simultaneous control of different devices inserted in a group, even if some of these belong to different series; - use of a single receiver, installed in one of the devices belonging to the group, to control all the devices belonging to the group.
Firmware version (not modifiable)
This function enables the display of the version of the firmware present in a device.
Hardware version (not modifiable)
This function enables the display of the version of the hardware present in a device.
Serial number (not modifiable)
This function enables the display of the serial number identifying a specific device. This number is different for each device, even if of the same model.
Password management:
This function is useful to restrict access by unauthorised personnel to all or some of the programming functions of a device. If a device is password protected, the user must perform the "log in" procedure to proceed with a programming session, followed by the "log out" procedure on completion of the programming procedure. NOTE – the "log out" procedure enables the user to prevent access by unauthorised personnel, by re-activating the existing password. Caution! – In programming the password on multiple devices (for example, on the Oview, control unit, receiver, etc.), it is advisable to use the same password for all devices, including the Oview. This will avoid the need to repeat the login procedure each time the device is changed during use of Oview and the connected Software. Two types of password can be programmed on the devices (including Oview). - the user password, containing 6 alphanumeric characters maximum. Caution! – Do not use uppercase letters. - the installer password, containing 6 alphanumeric characters maximum. Caution! – Do not use uppercase letters.

CONTROL UNIT FUNCTIONS

Installation

Device Search (0x05)
This function enables start-up of the procedure for learning the devices connected to the HALT input of the control unit of an automation. Important – To activate the device search, press "Start". The safety circuit should be closed (Safety LED lit).
Reverse rotation (0xa3)
This parameter type is ON/OFF; the factory setting is "OFF" (standard motor rotation). This function reverses the rotation direction of the encoder to align it with the direction of the motor; the factory setting is "OFF" (standard rotation direction of the encoder). Important – When you modify this parameter, you must then run the open/close position learning procedure.
Position programming
• Command mode
This parameter type is ON / OFF; the factory setting is "ON". This function enables the motor positions to be changed in 2 ways: ON: the positions that can be programmed via the "Opening", "Partial Opening 1" and "Closing" functions can only be modified by moving the motor; OFF: the positions that can be programmed via the "Opening", "Partial Opening 1" and "Closing" functions can be modified without moving the motor. This mode is used to set the END of the positions.
• open (0x18)
This function is expressed in encoder pulses. During an opening manoeuvre, this enables programming of the precise point (position) of the door opening travel limit. To do so, use the hold-to-run "open" and "close" buttons; this enables you to determine the desired position and save it with the "OK" button. If the motor has a mechanical limit switch, the position is not displayed.
• partial open 1 (0x1b)
This function is expressed in encoder pulses. During the opening manoeuvre this enables programming of the precise point (position) at which the door stops travel (partial open). To do so, use the hold-to-run "open" and "close" buttons; this enables you to determine the desired position and save it with the "OK" button (see "Command mode"). Only used for motors with electronic limit switch (encoder). If the motor has a mechanical limit switch, the position is not displayed, but the closing time is displayed instead

<p>• close (0x19)</p> <p>This function is expressed in encoder pulses. During a closing manoeuvre, this enables programming of the precise point (position) of the door closing travel limit. To do so, use the hold-to-run "open" and "close" buttons; this enables you to determine the desired position and save it with the "OK" button (see "Command mode"). Only used for motors with electronic limit switch (encoder).</p>
<p>• exclusion position (0x04)</p> <p>This parameter is expressed in seconds and can be set with a value from 0 to 200 seconds; the factory setting is 50 seconds. NOTE – The value "0" is considered to be the fully closed position of the automation. This function enables the programming of the maximum limit, over which the control unit automatically disables the inversion manoeuvres envisaged in the obstacle detection functions, via the safety edge. Only used for motors with electronic limit switch (encoder).</p>
<p>Photo reverse delay (0x66)</p> <p>This parameter is expressed in milliseconds and can be set with a value from 60 to 2500 ms; the factory setting is 700 ms. This parameter allows you to adjust the delay time between photocell intervention and the start of the reversing manoeuvre.</p>
<p>Braking level (0x35)</p> <p>This parameter sets a delay for the activation/deactivation of the brake when starting a cycle. The range is 0 to 50ms; the factory setting is 0s. The parameter is divided into 4 items numbered 1 - 4 at the top right of the Oview screen. Select the delay time in "ms" for brake deactivation for:</p> <ul style="list-style-type: none"> - Value 1: start opening (default 12ms) - Value 2: start closing (default 12ms) - Value 3: stop opening (default 4ms) - Value 4: stop closing (default 4ms)
<p>Brake mode (0x36)</p> <p>This parameter type is ON / OFF; the factory setting is "OFF". This parameter sets the parking brake's operating mode. There are 2 modes:</p> <ul style="list-style-type: none"> - OFF: brake negative. During the manoeuvre, the brake is powered to release it and allow the motor to run. When the manoeuvre is completed, power to the brake is shut off, thus automatically engaging it - ON: brake positive. During the manoeuvre the brake is not powered and the motor is free to run. When the manoeuvre is completed, the brake is powered up, thus becoming engaged.
<p>Delete data (0x0c)</p> <p>This function enables the user to delete the configuration of a control unit and the relative stored data, by selecting the following command:</p> <p><input type="checkbox"/> all – deletes all data in the control unit memory, except for the reserved parameters: series, address, hardware version, software version, serial number. It also loads the default values for sectional doors and shutters. After this, the default values are preloaded automatically.</p>

Basic parameters

<p>Automatic closure (0x80)</p> <p>This parameter type is ON / OFF; the factory setting is "OFF". This function enables the activation of automatic closure at the end of an opening manoeuvre in the control unit of the automation. If the function is active (ON) the automatic closure manoeuvre starts at the end of the wait time programmed in the function "pause time". If the function is not active (OFF) the Control unit operation mode is "semiautomatic". NOTE – auto close does not operate in hold-to-run close mode. NOTE – does not work in mode Hold-To-Run or Industrial modes.</p>
<p>Pause time (0x81)</p> <p>This parameter is expressed in seconds and can be set with a value from 1 to 250 sec.; the factory setting is 20 sec. This function enables programming on the Control unit of the required wait time which must pass between the end of an Opening manoeuvre and the start of a Closing manoeuvre. Important – This function is only enabled if the "automatic closure" function is active.</p>
<p>Close again after photo (0x86)</p> <p>• active (0x84)</p> <p>This parameter is ON/OFF; the factory setting is "OFF". The function enables the automation to remain in the Open position only for the time required for a vehicle or person to transit. When this interval elapses the Automatic Closure manoeuvre is activated automatically, which in turn is started after a time as set in the function "wait time".</p> <p>Caution! – The "reclose after photo" function is disabled automatically if a Stop command is sent during the manoeuvre in progress or if the safety edge is enabled. This function does not work in "hold-to-run close mode".</p>
<p>• mode (0x86)</p> <p>This parameter is factory set on the mode "open until disengage". The function has 2 operating modes:</p> <ul style="list-style-type: none"> <input type="checkbox"/> open all – when this mode is enabled, if the safety devices (photocells) are activated during a Closure manoeuvre, the automation starts to perform a complete Opening manoeuvre. On the other hand, if the safety devices are disengaged, the automation starts the automatic closure manoeuvre after the wait time as programmed in the function "closure delay time" has elapsed; <input type="checkbox"/> open until disengage – when this mode is enabled, if the safety devices (photocells) are activated during a Closure manoeuvre, the automation starts to perform an Opening manoeuvre, which proceeds until the photocells are disengaged. At this point the manoeuvre is shut down and the automation starts the closure manoeuvre after the wait time as programmed in the function "closure delay time" has elapsed. NOTE – If the "Automatic closure" function is not active, the Control unit switches to "open all" mode.
<p>• wait time (0x85)</p> <p>This parameter is expressed in seconds and can be set with a value from 0 to 250 sec.; the factory setting is 5 sec. This function enables programming on the Control unit of the required wait time to pass between the end of an Opening manoeuvre and the start of a Closing manoeuvre.</p>
<p>Always close (0x87)</p> <p>• active (0x86)</p> <p>This parameter is ON/OFF; the factory setting is "OFF". This function is useful in the event of a power failure, even brief. In fact, during an Opening manoeuvre if the automation shuts down due to a power failure and the function is active (ON), the Closure manoeuvre is performed normally when the electrical power is restored. On the contrary, if the function is not active (OFF), the automation remains stationary when the power is restored. NOTE – For reasons of safety, when the function is active, the Closure manoeuvre is preceded by a wait time as programmed in the function "pre-flashing time". NOTE – auto close does not operate in hold-to-run close mode.</p>

<p>• mode (0x8a)</p> <p>This parameter is factory set on the mode “always close”. The function has 2 operating modes:</p> <ul style="list-style-type: none"> <input type="checkbox"/> always close – For this mode, refer to the function “active” under the item “always close”; <input type="checkbox"/> save automatic closure - Enabling this mode, you may obtain two results when power is restored after a power failure: a) execution of automatic closure, observing the time as programmed in the function “pre-flashing time”, if the timeout interval of this time was in progress at the time of the power failure; b) execution of closure manoeuvre if the automatic closure was in progress at the time of the power failure and the manoeuvre had not been completed. <p>NOTE – If the automatic closure manoeuvre was cancelled before the power failure (for example, by sending the Halt command), the Closure manoeuvre is not performed when the power is restored.</p>
<p>• wait time (0x89)</p> <p>This parameter is expressed in seconds and can be set with a value from 0 to 20 sec.; the factory setting is 5 sec. This function enables programming on the Control unit of the required wait time to pass between the end of an Opening manoeuvre and the start of a Closing manoeuvre.</p>
<p>Pre-flashing (0x93)</p>
<p>• active (0x94)</p> <p>This parameter is ON/OFF; the factory setting is “OFF”. When this function is set to “ON” it enables the activation of a flashing time, which passes between activation of the flashing light and the start of an Opening or Closing manoeuvre. This time is adjustable and useful to for an advance indication of a hazardous situation. NOTE – the output should be set with the “Flashing light” function. Important – When this function is not active (OFF), the flashing light is switched on at the same time as the start of the manoeuvre.</p>
<p>• time in opening (0x95)</p> <p>This parameter is expressed in seconds and can be set with a value from 0 to 10 sec.; the factory setting is 3 sec. This function programs the flashing time which indicates the imminent start of an Opening manoeuvre: it is associated with the pre-flashing function.</p>
<p>• time in closing (0x99)</p> <p>This parameter is expressed in seconds and can be set with a value from 0 to 10 sec.; the factory setting is 3 sec. This function programs the flashing time which indicates the imminent start of a Closing manoeuvre: it is associated with the pre-flashing function.</p>
<p>Block automation (0x9a)</p> <p>This parameter is ON/OFF; the factory setting is “OFF”. This function enables automation operation to be disabled, by setting the value to “ON”. In this case no type of command is acknowledged or performed, with the exception of “High priority step-step”, “Release”, “Release and close” and “Release and open”.</p>
<p>Block keys (0x9c)</p> <p>This parameter type is ON / OFF; the factory setting is “OFF”. This function disables operation of the keys present on the control unit, except for the emergency Stop key.</p>
<p>Short inversion value (0x31)</p> <p>This parameter is expressed in seconds and can be set with a value from 0,1 to 5 seconds; the factory setting is 3 seconds. This function enables programming of the brief inversion activated by the control unit as a safety manoeuvre following detection of an obstacle or delivery of a “Stop” command.</p>
<p>FOTO exclusion position (0xaf)</p> <p>This parameter is expressed in seconds and can be set with a value from 0 to 20000 seconds; the factory setting is 0 seconds. NOTE – the “0” setting is considered the fully closed position of the automation. This function programs the maximum limit within which the control unit automatically inhibits monitoring of the photocells (FOTO address).</p>
<p>Maximum work time (0xa7)</p> <p>Sets the maximum duration of the manoeuvre. When it times out, the manoeuvre is aborted.</p>
<p>• mode</p> <ul style="list-style-type: none"> <input type="checkbox"/> manual: in this mode, the work time is taken from the configurable parameter “maximum work time”. <input type="checkbox"/> automatic: in this mode, the control unit measures the time taken to complete the manoeuvre after position learning, and sets a slightly higher value.
<p>• maximum work time</p> <p>This parameter ranges from 0 to 250s, and represents the maximum time within which a manoeuvre must be completed in the manual mode; the default value is 60s.</p>

Advanced parameters

INPUT configuration

This item covers the commands available and associable with input 1 present on the control unit of the automation. The commands available for the input are described in Table 1; the command categories and relative operating modes are described in Table 1a, 1b, 1c etc. **Important** – For correct operation of the control unit, the command programmed on the input must be associated with the corresponding command category and lastly the required operating mode.

Proceed as follows to configure the input:

01. In the section “Advanced parameters” select the item “input configuration” and then the input to be programmed. Select the command and confirm with “OK”.

02. Then, still in “Advanced parameters”, select “command configuration” and select the category of the command selected in step 01. Finally, select the operating mode. The input available is:

• input 1

This programs Input 1, by assigning a command from among those listed in Table 1. Input 1 is factory set to “step-by-step” command, with the “Industrial Mode” operating mode for sectional doors – with “open - stop - close - open” mode for high-speed doors.

TABLE 1: INPUT CONFIGURATION

COMMAND	COMMAND CATEGORY	DESCRIPTION
No command		Does not perform any command.
Step-by-step	Step-by-step: Program the desired mode from those given in Table 1-A ("Command configuration" > "step-by-step" > operating mode ...)	This command is set by default to Input 1, in "open-stop-close-open" operating mode. When the command is sent, the control unit makes the automation run the manoeuvre following that previously (or still) in execution, according to the order of manoeuvres given in the programmed sequence. Input configured as normally open.
Partial open 1	Partial open: Program the desired mode from those listed in Table 1-B ("Command configuration" > "partial open" > mode ...)	When this command is sent the control unit activates the application to complete the Opening manoeuvre until the position is reached as set in the function "partial open 1"(Control unit functions > installation > positions > partial open 1). Input configured as normally open.
Open	Opening: Program the desired mode from those listed in Table 1-C ("Command configuration" > "opening" > mode ...)	This command is factory assigned to Input 2, in mode "open - stop - open". When this command is sent the control unit activates the application to complete the Opening manoeuvre until the position is reached as set in the function "opening" (Control unit functions > installation > positions > opening). Input configured as normally open.
Close	Closure: Program the desired mode from those listed in table 1-B ("command configuration" > "closure" > mode ...)	This command is factory set to Input 3, with operating mode "close - stop - close". When this command is sent the control unit activates the application to complete the Closing manoeuvre until the position is reached as set in the function "closing" (Control unit functions > installation > positions > closing). Input configured as normally open.
Stop	Stop: Program the desired mode from those listed in Table 1-E ("command configuration" > "stop" > mode ...)	When this command is sent, the control unit stops the manoeuvre in progress within a short time (not instantly). Input configured as normally open.
High priority step-by-step	High priority step-by-step: Program the desired mode from those given in Table 1-A ("Command configuration" > "step-by-step" > operating mode ...)	When this command is sent, the control unit activates the application to complete the next manoeuvre following the previous one (or still in progress) according to the sequence of manoeuvres as envisaged in the programmed sequence. Important – This command is performed even if the control unit is set with the command "block" (see Table 1). Input configured as normally open
Open and block	Opening and block: Program the desired mode from those listed in Table 1-C ("Command configuration" > "opening" > mode ...)	When this command is sent the control unit activates the application to complete the Opening manoeuvre until the position is reached as set in the function "opening" (Control unit functions > installation > positions > opening). Input configured as normally open.
Close and block	Close and block: Program the desired mode from those listed in Table 1-D ("command configuration" > "closure" > mode ...)	When this command is sent the control unit activates the application to complete the Closing manoeuvre until the position is reached as set in the function "closing"(Control unit functions > installation > positions > closing) and the automation is then blocked. Input configured as normally open.
Block		When this command is sent, the control unit is blocked and does not perform any type of command, with the exception of "High priority step-step", "Release", "Release and close" and "Release and open". Input configured as normally open.
Release		When this command is sent, the control unit is released restoring normal operating status (all commands sent can be performed). Input configured as normally open.
Release and open		When this command is sent, the control unit is released (restoring normal operating status) and activates the application to execute an Opening manoeuvre. Input configured as normally open.
Release and close		When this command is sent, the control unit is released (restoring normal operating status) and activates the application to execute a Closing manoeuvre. Input configured as normally open.

Emergency stop (0x28)		When this command is sent, the door opens or closes (depending on the mode set using the emergency Command mode [0x6F]) regardless of its position. The input must remain active. All close commands are ignored (keys, automatic closure...). Only the hardware safeties remain active. The door's operation is restored when the input is deactivated. Input configured as normally closed.
Photo Safety function	Photo Program the desired mode from those listed in Table 1-I ("command configuration" > "photo" > mode ...)	When this command is sent, the control unit activates the application according to the selected manoeuvre type. Input configured as normally closed.

COMMAND CONFIGURATION

This item covers the command categories associable with input 1 (see section "input configuration - Table 1" to check the commands available). Each command category features various operating modes as described in a table (1-A, 1-B, etc.):

Step-by-step

In this command category the user can select one of the operating modes specified in Table 1-A.

TABLE 1-A: COMMAND CONFIGURATION

MODE	DESCRIPTION
Industrial mode	This runs the sequence "open in semiautomatic- close in hold-to-run".
Open - stop - close - stop	This executes the above sequence.
Open - Stop - Close - Open	Operating mode set in factory (Input 1 - "step-by-step" command). This executes the above sequence.
Apartment block 1 step-by-step	Runs the sequence "close - stop - open - open", until it reaches the fully open position. NOTE – If another command is sent after this one, the application executes the Closing manoeuvre with the same sequence.
Hold-to-run	The Opening or Closing manoeuvre is executed exclusively if the transmitter key is held down (hold-to-run).

Partial open

In this command category the user can select one of the operating modes specified in Table 1-B.

TABLE 1-B: COMMAND CONFIGURATION

MODE	DESCRIPTION
Industrial mode	This runs the sequence "open in semiautomatic- close in hold-to-run".
Open - stop - close - stop	Operating mode set in factory. This executes the above sequence.
Hold-to-run	The Partial open 1 or Closing manoeuvre is executed exclusively if the transmitter key is held down (hold-to-run).

Open

In this command category the user can select one of the operating modes specified in Table 1-C.

TABLE 1-C: COMMAND CONFIGURATION

MODE	DESCRIPTION
Open - Stop - Open	Operating mode set in factory (Input 2 - "open" command). This executes the above sequence.
Apartment block 1	This executes the sequence "open - open". Important – When sending a command, if the transmitter key is held down for more than 2 seconds, the control unit activates a Stop.
Hold-to-run Open	The Opening manoeuvre is executed exclusively if the transmitter key is held down (hold-to-run).

Close

In this command category the user can select one of the operating modes specified in Table 1-D.

TABLE 1-D: COMMAND CONFIGURATION

MODE	DESCRIPTION
Close - stop - close	Operating mode set in factory (Input 3 - "close" command). This executes the above sequence.
Apartment block 1 close	This executes the sequence "close - close".
Hold-to-run close	The Closing manoeuvre is executed exclusively if the hold-to-run command is used.

Stop

In this category, you can choose one of the operating modes listed in table 1-E.

TABLE 1-E: COMMAND CONFIGURATION

MODE	DESCRIPTION
Stop	Operating mode set in factory. When the control unit receives the command, it stops the manoeuvre in progress gradually and in a short time (not instantly).

Alt in opening	
In this category, you can choose one of the modes listed in table 1-F.	
TABLE 1-F: COMMAND CONFIGURATION	
MODE	DESCRIPTION
Not specified	Not specified. Operating mode set in factory.
Stop	When this type of function is set, when the control unit receives the command, it stops the Opening manoeuvre in progress immediately.
Stop in closure	
In this category, you can choose one of the modes listed in table 1-G.	
TABLE 1-G: COMMAND CONFIGURATION	
MODE	DESCRIPTION
None	
Stop	Operating mode set in factory. When the control unit receives the command, it stops the Closing manoeuvre in progress.
Stop and brief inversion	When the control unit receives the command, it stops the Closing manoeuvre in progress immediately and activates the application to perform a brief inversion in the opposite direction (Opening).
Emergency mode (0x6F)	
In this category, you can choose one of the modes listed in table 1-H	
TABLE 1-H: COMMAND CONFIGURATION	
MODE	DESCRIPTION
Apartment block 1	When this type of function is set, when the control unit receives the command, it stops the Opening manoeuvre in progress immediately, until the pre-set opening position is reached. If a safety function is activated during Opening, the manoeuvre will stop temporarily while the function is active, after which Opening will continue.
Apartment block 1 close	When this type of function is set, when the control unit receives the command, it stops the Closing manoeuvre in progress immediately, until the pre-set closing position is reached. If a safety function is activated during Closing, the manoeuvre will stop temporarily while the function is active, after which Closing will continue.
Photo	
In this category, you can choose one of the operating modes listed in table 1-I.	
TABLE 1-I: COMMAND CONFIGURATION	
MODE	DESCRIPTION
Stop and inversion	Operating mode set in factory. When the control unit receives the command, it stops the Closing manoeuvre in progress and activates a total inversion (Opening). Caution! – During execution of the Opening manoeuvre, this command is ignored.
Stop	When the control unit receives the command is stop the current Close manoeuvre. Caution! – During execution of the Opening manoeuvre, this command is ignored.

OUTPUT CONFIGURATION
This item covers the functions available and associable with Outputs 1 (Manoeuvre in progress) - 2 (Door closed) present on the control unit of an automation. Each output has various functions as described in a table (Table 2, Table 3, etc.):
OUTPUT
To control the outputs, the optional NDA040 card is needed, which has 2 clean contact outputs. - OUTPUT 1 - OUTPUT 2

TABLE 2: OUTPUT CONFIGURATION	
FUNCTION	DESCRIPTION
Manoeuvre in progress (0x23)	This function is only active when the motor is running. It is useful for connecting a flashing light with autoflash or for signalling the movement status of the motor
Red traffic light (0x0d)	This function indicates activity of the application during the phases of a Closing manoeuvre. slow flashing = execution of Closing manoeuvre; light permanently on = application in maximum Closing position; light off = application in other positions.

Green traffic light (0x0e)	This function indicates activity of the application during the phases of an Opening manoeuvre. slow flashing = execution of Opening manoeuvre; light permanently on = application in maximum Opening position; light off = application in other positions.
Gate open (0x02)	The programmed light indicates the operating status of the control unit. light on = application in maximum Opening position; light off = application in other positions.
Gate closed (0x03)	The programmed light indicates the operating status of the control unit. light on = application in maximum Closing position; light off = application in other positions.
Service light (0x04)	The programmed light indicates the count of manoeuvres completed and therefore the need (or not) for system maintenance operations. light on for 2 sec at start of Opening manoeuvre = number of manoeuvres less than 80%; light flashing during execution of entire manoeuvre = number of manoeuvres between 80 and 100%;
Flasher (0x17)	This function enables the flashing light to indicate execution of a manoeuvre in progress with flashes at regular intervals (0.5 sec ON, 0.5 sec OFF). Use this configuration if the pre-flashing function with flashing light is needed.
Electric lock 1 (0x07)	With this function programmed, when an Opening manoeuvre is performed the electric lock is activated for a time as set in the function "electric lock time – output configuration".
Electric block 1 (0x09)	With this function programmed, when an Opening manoeuvre is performed, the electric lock is activated for the entire duration of the Opening process.
Suction cup 1 (0x0b)	With this function programmed, the suction cup is activated when the application is in the maximum Closing position. NOTE – The suction cup is disabled in all other situations. When the suction cup is disabled, before an Opening manoeuvre is started, the time interval as programmed in the function "suction cup time – output configuration" is activated, which delays the start of the manoeuvre.
Courtesy light (0x06)	This function type is ON/OFF. Important – For safety reasons, as the light is not controlled by a timer, use of an adequate light, able to withstand the heat of the light emitted, is recommended.
Radio channel 1 (0x0f)	When a transmitter sends a command, this output is activated. This mode is useful if installing external devices (for example, an auxiliary light) in the same system to be controlled with a single transmitter. CAUTION – If this channel is not free on the control unit's receiver, due to having been previously memorised with a command, when the channel is activated by the transmitter, the control unit only activates the programmed output, and ignores the motor command.
Radio channel 2 (0x10)	When a transmitter sends a command, this output is activated. This mode is useful if installing external devices (for example, an auxiliary light) in the same system to be controlled with a single transmitter. CAUTION – If this channel is not free on the control unit's receiver, due to having been previously memorised with a command, when the channel is activated by the transmitter, the control unit only activates the programmed output, and ignores the motor command.
Radio channel 3 (0x11)	When a transmitter sends a command, this output is activated. This mode is useful if installing external devices (for example, an auxiliary light) in the same system to be controlled with a single transmitter. CAUTION – If this channel is not free on the control unit's receiver, due to having been previously memorised with a command, when the channel is activated by the transmitter, the control unit only activates the programmed output, and ignores the motor command. The OUT-TL3 output at 24V DC / max 5 W is used
Radio channel 4 (0x12)	When a transmitter sends a command, this output is activated. This mode is useful if installing external devices (for example, an auxiliary light) in the same system to be controlled with a single transmitter. CAUTION – If this channel is not free on the control unit's receiver, due to having been previously memorised with a command, when the channel is activated by the transmitter, the control unit only activates the programmed output, and ignores the motor command. The OUT-TL3 output at 24V DC / max 5 W is used

Output 2
In this output the user can select one of the functions specified in Table 2.
Electric lock time
This parameter is expressed in seconds and can be set with a value from 0.1 to 10 sec.; the factory setting is 2 sec. This function allows you to set how long the electric lock command remains active on the control panel.
Suction cup time
This parameter is expressed in seconds and can be set with a value from 0.1 to 10 sec.; the factory setting is 2 sec. This function enables programming on the Control unit of the required time interval to pass between the end of a Closing manoeuvre and the start of an Opening manoeuvre, when the suction cup is disengaged.
Courtesy light time
This parameter is expressed in seconds and can be set with a value from 0 to 250 sec.; the factory setting is 60 sec. This function programs the courtesy light on time for the various outputs.

MAINTENANCE
Manual alarm threshold
A value from 0 to 16777215 (manoeuvres) can be assigned to this parameter; the factory setting is 10000 (manoeuvres). This function enables programming of a reference limit, over which automation maintenance is required.
Partial count
This function enables the user to check the number of manoeuvres performed by an automation since it was last serviced.
Delete maintenance
This parameter is ON/OFF; the factory setting is "OFF". This function enables deletion of the "partial count" value; this is required after performing maintenance on the automation.

DIAGNOSTICS
Automation position
Indicates the physical position of the encoder in encoder pulses.
Inputs / Outputs
This function enables the display of the operating status of all inputs and outputs present on the control unit. The functions of the inputs and outputs are described in Table 3.

TABLE 3: Input/output DIAGNOSTICS

FUNCTION	DESCRIPTION
INPUT STATUS:	
Alt Inp	Indicates when the alt input is active.
Inp 1	Indicates when input 1 is active.
BOARD KEYS:	
Key 1	Indicates when key 1 is pressed (= OPEN) on the control unit.
Key 2	Indicates when key 2 is pressed (= STOP) on the control unit.
Key 3	Indicates when key 3 is pressed (= CLOSE) on the control unit.
MOTOR 1 (On / Off):	
Limit switch on opening	Indicates when motor 1 reaches the maximum opening position.
Limit switch on closing	Indicates when motor 1 reaches the maximum closing position.
Pre-closing limit switch	Indicates when motor 1 reaches the pre-closing position.
M1 ENCODER STATUS	Indicates whether there is a reading error or operating malfunction on the absolute encoder of motor 1.
OUTPUTS:	
Motor 1 Out	Indicates when motor 1 is in operation.
Out 1	Indicates when output 1 is active. (Contact clean)
Out 2	Indicates when output 2 is active. (Contact clean)
ALT STATUS	Indicates the type of connection on the alt terminal. Connection types are: not configured; NC; NO; 1 8K2 resistive edge; 2 8K2 resistive edges; 1 OSE optical edge; out of range.
Inp. RADIO	Bit map containing the real-time status of the radio channels 0= OFF 1= ON
Inp. T4 mode 1	Bit map containing the status.....
Inp. T4 mode 2	Bit map containing the status.....
MEMORY ERRORS:	
Positions	Indicates whether there is an error in the memorised data regarding positions.
Adjustments	Indicates whether there is an error in the memorised data on the control unit regarding settable parameters.
Bluebus	Indicates whether there is an error in the memorised data regarding the configuration of the devices connected to the bluebus input.
Stop	Indicates whether there is an error in the memorised data regarding the configuration of the alt input.
Functions	Indicates whether there is an error in the memorised data regarding the functions programmable with Oview.
Map M1	Indicates whether there is an error in the memorised data, related to the values for the force required by motor 1 to complete a manoeuvre.
Manoeuvre lim. status	-
ALARMS:	
Out 1 overload	Indicates an electrical overload or short circuit on output 1 or on the courtesy light of the control unit.
Out 2 overload	Indicates an electrical overload or shortcircuit at output 2.
M1 Encoder lower overtravel	Indicates that the absolute encoder of motor 1 is in a position close to the minimum limit (0%), below which the motor does not function.
M1 Encoder upper overtravel	Indicates that the absolute encoder of motor 1 is in a position close to the maximum limit (100%), over which the motor does not function.

Other parameters

This function enables display of the operating status of some parameters measured by the control unit. These parameters are described in Table 4.

TABLE 4: DIAGNOSTICS of other parameters

PARAMETER	DESCRIPTION
Diagnostics 2	
MISCELLANEOUS PARAMETERS:	
Operating time	In seconds
Pause time	Indicates the timer for counting the pause time between one manoeuvre and the next.
Courtesy light	Indicates the timer for shutoff of the courtesy light.

ADVANCED FUNCTIONS

Event log

This function enables the display of the events generated or received by the control unit. An "event" is a condition which changes the operating status of the control unit, such as: activation of an input, end of a manoeuvre, photocell or stop input tripped, etc. This section displays the date and type of an event.

Firmware updates

The function can be carried out solely when the "o-view desktop" software is used, together with the O-view programmer with bluetooth module.

User permits

This function enables the installer to decide which functions and parameters are to be selected for display and modifications by the user. For example, for safety reasons, the installer can decide to prevent the user from modifying the safety parameters related to automation motor.

User permissions can be managed exclusively by using the "installer password" (password management, common functions). NOTE – All parameters of the various functions of a control unit or receiver are factory set as disabled.



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