



CAB

CE

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AUX1:SCA	RUH 1:0	AUX2: SCA	80H5:0
$\begin{array}{c c} & 24 \text{Vdc} \\ \hline 500\text{mA max} \\ \hline \hline 9 & 10 & 11 & 12 \\ \hline & + & - \\ \hline \\ + & & \\ \end{array}$		24Vdc 500mA max 11 12	





Schema menu di programmazione - Menu programming layout Display OFF Diagramm Programmiermenü - Menu de programmation Menú de la carta de programación - Układ menu programowania Power ON mware Ver. (3s) (+,-)-€Ð œ-ÔQ Diagnostic 8888 PG PRr 40 EcR PrG Loũ PG Ec.R PG PG PG (PG) ¢ ¢¢ ÐÇ 50 IBL Fbeq PG Prū PG PG ¢ ¢¢ -20 ESNI Prū Іьс Я PG -PG (PG) ¢ ¢ 🗘 ÐÇ 20 Prū Sel -PG 502 PG -(PG) ¢ €₽ **.** 99 PP SPd1 PG Prū -PG -PG ÐĢ ¢¢ • 99 SPd2 PG Prū PrE PG PG Ð Ð Θ E ¢€ ¢Ç **.** SLdi 30 Prū hRn PG PG PG ÐÓ ¢ ÐÐ PG 30 bLco SL d2 PG Prū (PG) €₽ Ð ÷. 20 bLcc PG Prū PNo I PG -PG ¢ ¢ 🗘 •• 20 SoFE PG PNc 1 PG Prū PG ¢ ¢¢ ΡΠοΖ 20 ÷ 🖯 PG Prū LECA PG PG ¢ €Ģ 20 hEr PG PNc2 PG • -PrG PG ¢ ∲₽ (†) INot PG 20 PSo I PG -PG Prū ₫₽ ¢ ¢ 20 PSc 1 -PG Prū PG NLoc PG ¢€ €Ģ P502 20 Ð Prū **PG** -PG 66 -PG ¢ ¢ • PSc2 PG 20 Prū -PG ESE I -PG Ð Ð Θ ¢¢ €₽ • EdNo PG 2 Prū -PG ESE2 PG ¢ ک Prū EdNe PG 2 PG ESEN PG ¢ �₽ 60 ΦŒ LLS PG PrG r EN -PG PG £cR ¢ Ģ ÐĢ ELoc 5 Prū **PG** PG ¢€ • 0 SERu PG Prū -PG ¢ Loũ rRd I --SERr 0 Prū PG PG ¢ **.** 250 E Inc PG Prū (PG) ¢ • Prū RUH I ۵ PG PG ¢ €Ģ Prū RUHŻ PG -PG tc8 Ġ



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oFF

Legenda	Legenda			
⊙	Premere il tasto (-) / Press key (-) / Die Taste (-) drücken Appuyez sur la touche (-) / Presionar la tecla (-) / Wcisnąć przycisk (-)			
+	Premere il tasto (+) / Press key (+) / Die Taste (+) drücken Appuyez sur la touche (+) / Presionar la tecla (+) / Wcisnąć przycisk (+)			
PG	Premere il tasto (PG) / Press key (PG) / Die Taste (PG) drücken Appuyez sur la touche (PG) / Presionar la tecla (PG)/ Wcisnąć przycisk (PG)			
.	Premere simultaneamente (+) e (-) / Press simultaneously keys (+) and (-) Gleichzeitig (+) und (-) drücken / Presser simultanément (+) et (-) Presionar simultáneamente (+) y (-) / Naciskać jednocześnie (+) i (-)			
(+) 	Selezionare il valore desiderato con i pulsanti (+) e (-) Increase/decrease the value with keys (+) and (-) Mit den Tasten (+) und (-) kann man eingerichtete Werte ändern Régler la valeur désirée avec les touches (+) et (-) Establecer con las teclas (+) y (-) el valor deseado Nastawia przyciskami (+) i (-) obraną wartoś			
	Selezionare il pulsante del trasmettitore da associare alla funzione Press the transmitter key, which is to be assigned to function Taste des Sendegeräts drücken, dem diese Funktion zugeteilt werden soll. Appuyer sur la touche du transmetteur qu'e l'on désire affecter à cette fonction. Presionar la tecla del transmisor que se desea asignar a esta función. Wcisnąć przycisk nadajnika, który zamierza się skojarzyć z tą funkcją.			

ENG

WARNING



GENERAL INFORMATIONS The product shall not be used for purposes or in ways other than those for which the product is intended for and as described in this manual. Incorrect uses can damage the product and cause injuries and damages.

The company shall not be deemed responsible for the non-compliance with a good manufacture technique of gates as well as for any deformation, which might occur during use. Keep this manual for further use.



INSTALLER GUIDE

This manual has been especially written to be use by qualified fitters. Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.

Make sure that the structure of the gate is suitable for automation.

The installer must supply all information on the automatic, manual and emergency operation of the automatic system and supply the end user with instructions for use.

GENERAL WARNINGS

Packaging must be kept out of reach of children, as it can be hazardous.

For disposal, packaging must be divided the various types of waste (e.g. carton board, polystyrene) in compliance with regulations in force. Do not allow children to play with the fixed control devices of the product.

Keep the remote controls out of reach of children.



This product is not to be used by persons (including children) with reduced physical, sensory or mental capacity, or who are unfamiliar with such equipment, unless under the supervision of or following training by persons responsible for their safety.

Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazard. Bear in mind the standards and directives in force, Good Practice criteria, intended use, the installation environment, the operating logic of the system and forces generated by the automated system.

Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 12453.

Only use original accessories and spare parts, use of non-original spare parts will cause the warranty planned to cover the products to become null and void.

All the mechanical and electrical parts composing automation must meet the requirements of the standards in force and outlined by CE marking.

ELECTRICAL SAFETY

An omnipolar switch/section switch with remote contact opening equal to, or higher than 3mm must be provided on the power supply mains. Make sure that before wiring an adequate differential switch and an overcurrent protection is provided.

Pursuant to safety regulations in force, some types of installation require that the gate connection be earthed.

During installation, maintenance and repair, cut off power supply before accessing to live parts.

Also disconnect buffer batteries, if any are connected.

The electrical installation and the operating logic must comply with the regulations in force.

The leads fed with different voltages must be physically separate, or they must be suitably insulated with additional insulation of at least 1 mm. The leads must be secured with an additional fixture near the terminals.

During installation, maintenance and repair, interrupt the power supply before opening the lid to access the electrical parts Check all the connections again before switching on the power.

The unused N.C. inputs must be bridged.



WASTE DISPOSAL

As indicated by the symbol shown, it is forbidden to dispose this product as normal urban waste as some parts might be harmful for environment and human health, if they are disposed of incorrectly.

Therefore, the device should be disposed in special collection platforms or given back to the reseller if a new and similar device is purchased. An incorrect disposal of the device will result in fines applied to the user, as provided for by regulations in force.

Descriptions and figures in this manual are not binding. While leaving the essential characteristics of the product unchanged, the manufacturer reserves the right to modify the same under the technical, design or commercial point of view without necessarily update this manual.

TECHNICAL DATA

Contol unit supply	24 Vdc
Power supply	100÷250 Vac 50/60 Hz
Output supply	1/2 motor 24Vdc
Maximum motor current	7+7 A
Output supply accessories	24Vdc 500mA max.
Protection level	IP55
Operating temp.	-20°C / +50°C
Radio receiver	built in 433,92 MHz confgurabile
Rolling code transmitters supported	64

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HYBRA 24 CONTROL UNIT

ARC CONTROL UNIT

IMPORTANT, PLEASE READ CAREFULLY:

The radio receiver in this product is compatible ONLY with the new ARC (Advanced Rolling Code) transmitters which, thanks to 128-bit encryption ensure superior copy-security. Storing new ARC transmitters is quite similar to that of normal rolling code transmitters with HCS coding

1) WIRE DIAGRAM

Wire connections shown in Fig. 1 are described hereunder:

	SAR.24V			
Terminal	Function	Description		
L-N-GND	Power supply	Power supply input (115V \pm 10% or 230V \pm 10%) selectable via terminal M4		
M4	Power supply selection	WARNING: to use the central unit with 115V power supply, it is necessary to jumper this terminal.		
+ 24V -	Output 24Vdc	Controller HYBRA 24 power supply output 24 Vdc		
+BAT-	Batteries	Clamp input for connection of back-up batteries (accessory).		
		HYBRA 24		
Terminal No.	Function	Description		
1-2	Motor 1	Connection, motor 1: 24VDC 16A max		
3-4	Motor 2	Connection, motor 2: 24VDC 16A max		
5-6	Flashing light	Connection, flashing light 24VDC 15W max.		
7-8	Lock	Output, 12Vdc/10W power supply for electric lock (7:0V, 8:+12V)		
9-10	AUX1	N.O. contact free from voltage can be configured via the AUX1 parameter as: Open gate indicator (SCA), second radio channel (2nd CH), courtesy light (TLS), zone light, photoce test contact (PHOTEST). See parameter AUX1		
11-12	24 Vdc	Output, accessory power supply, 24VAC/0.5A max. Make sure the devices are correctly connected (i.e. 11:+24Vdc / 12:-0Vdc).		
13-17	Limit switch inputs	Do not use the limit switches in this version. DO NOT REMOVE the jumpers.		
18	PHOT	Input, photocell activated in both opening and closing phases		
19	PHOT C	Input, photocell activated in closing phase only (Normally closed contact)		
20	STOP	Input, STOP push-button (Normally closed contact)		
21	OPEN	Input, OPEN push-button (Normally open contact). It is possible to connect a timer for opening in time slots.		
22	CLOSE	Input, CLOSE push-button (Normally open contact)		
23	PED	Pedestrian button input (N.O. Contact), controls the motor 1 opening, see TPED parameter.		
24	Step-by-Step	Input, step-by-step push button (Normally open contact)		
25	СОМ	Common for Limit switch and all the command inputs.		
26	-	Input - Encoder Motor 1		

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ENC1	Input Signal Encoder Motor 1	
+	Input + Encoder Motor 1	
-	Input - Encoder Motor 2	
ENC2	Input Signal Encoder Motor 2	
+	Input + Encoder Motor 2	
SENSITIVE EDGE (BAR)	Input, sensitive edge contact Resistive edge: "BAR" Jumper closed Mechanical edge: "BAR" Jumper open When the edge is activated, the gate movement is stopped and reversed for about 3s.	
AUX2	N.O. contact free from voltage can be configured via the AUX2 parameter as: Open gate indicator (SCA), second radio channel (2nd CH), courtesy light (TLS), zone light, photoco test contact (PHOTEST). See parameter AUX2.	
Antenna	Connection to the built-in radio receiver card (30-signal/31-screen).	
24Vdc	Input, 24VDC power supply.	
CONFIGURATION MEMORY	Extractable Eprom Memory. Contains all the control unit configurations (logics, parameters, etc.), includ- ing the radiotransmitters. In case of faults it is possible to extract Eprom and insert it into a different control unit, avoiding reprogramming. In case of replacement, it is imperative to respect the Eprom insertion direction.	
	- ENC2 + SENSITIVE EDGE (BAR) AUX2 Autenna 24Vdc CONFIGURATION	

The control unit is equipped with an built-in radio module for the reception of variable code controls with ARC (Advanced Rolling-Code), 433.92 MHz frequency.

2) ENCODER WIRING

The HYBRA 24 central unit is to be used exclusively with the HD.3524/HD5024 series gear motors with encoder.

For connecting the encoder to the central unit, refer to Fig.2.

Although present, inputs for mechanical limit switches are not used.

3) AUTOSET

This function is used to set the optimal automation operating values and, at the end of the procedure, the parameters of DISPLACEMENT, WORKING TIME and SLOWDOWN are adjusted.

Follow these steps to perform autoset:

1) Ensure that there are no obstacles in the door operating area, if necessary, cordon off the area to prevent access to people, animals, cars, etc.

During the autoset phase, the anti-crush function is not active.

2) Unlock the gear motors as indicated in the specific manual

3) Move both doors half way along the run and re-engage the gear motors.

3) Press the PG button, use the + button to select AUTO function and press OK.

4) The display shows the code HD24

5) Press OK to start the autoset phase.

6) The central unit performs a sequence of operations: single partial openings, full openings and closings at different speeds, and so on. D u r i n g this phase, the display will show some acronyms that indicate the operation that is being performed at that time:

OPM1/2: motor 1 or 2 in opening phase

CLM1/2: motor 1 or 2 in closing phase.

If the motor movement is opposite to what is indicated on the display, stop the autoset by pressing any of the programming buttons, reverse the +/- wires of the motor and repeat the autoset operation.

7) At the end of the autoset phase, the OK message is displayed.

Notes:

If the autoset is not successful, an ERR error message is displayed, refer to the Error Message table and proceed accordingly, and then repeat the autoset operation.

4) PROGRAMMING

The programming of the various functions of the control unit is carried out using the LCD display on the control unit and setting the desired values in the programming menus described below.

The parameters menu allows you to assign a numerical value to a function, in the same way as a regulating trimmer.

The logic menu allows you to activate or deactivate a function, in the same way as setting a dip-switch.

Other special functions follow the parameters and logic menus and may vary depending on the type of control unit or the software release.

TO ACCESS PROGRAMMING:

1 - Press the button <PG>, the display goes to the first menu, Parameters "PAR".

- 2 With the <+> or <-> button, select the menu you want (PAR>LOG>RAD>NMAN>MACI>RES>AUTO>CODE).
- 3- Press the button <PG>, the display shows the first function available on the menu.
- 4 With the <+> or <-> button, select the function you want.
- 5 Press the button <PG>, the display shows the value currently set for the function selected.
- 6 With the <+> or <-> button, select the value you intend to assign to the function.
- 7 Press the button <PG>, the display shows the signal "PRG" which indicates that programming has been completed.

NOTES:

Simultaneously pressing <+> and <-> from inside a function menu allows you to return to the previous menu without making any changes. Hold down the <+> key or the <-> key to accelerate the increase/decrease of the values.

After waiting 120s the control unit quits programming mode and switches off the display.

When the board is switched on, the software version is displayed for around 5 sec

Hold down the <+> key or the <-> key to accelerate the increase/decrease of the values.

5) PARAMETERS, LOGIC AND SPECIAL FUNCTIONS

The tables below describe the individual functions available in the control unit.

	5.1 PARAMETERS (PRr)		
MENU	FUNCTION	MIN-MAX-(Default)	MEMO
EcA	Automatic closing time. Active only with logic "TCA"=ON. At the end of the set time the control unit orders a closing manoeuvre.	1-240-(40s)	
EPEd	Adjusts the motor 1 opening percentage (pedestrian function). With Encoder equipped motors the value is expressed in a percentage (99% mean complete opening cycle). With the motors without Encoder or electrical Limit switch, the value is expressed in seconds. In the motors with encoder, the value is expressed in percentage. In motors without encoder the value is expressed in seconds.		
£5N I	Adjusts the slowdown phase in the opening and closing of the M1 motor. Value expressed as a percentage on the entire run. With 0 value, slowdown is disabled.	1-99-(20%)	
F2U5	Adjusts the slowdown phase in the opening and closing of the M2 motor. Value expressed as a percentage on the entire run. With 0 value, slowdown is disabled.	1-99-(20%)	
SPd (Adjusts motor 1 speed during normal speed phase. Value expressed in percentage.	30-99 (99%)	
5Pd2	Adjusts motor 2 speed during normal speed phase. Value expressed in percentage.	30-99 (99%)	
SLd I	Adjusts motor 1 speed during slowing phases*. This value is expressed in percentage.	20-70 (30%)	
5695	Adjusts motor 2 speed during slowing phases*. This value is expressed in percentage.	20-70 (30%)	
ΡΠο Ι	The anti-crash device* (amperometric sensor) operation is adjusted in the opening phase, at normal speed - Motor 1.		
PNc I	The anti-crash device* (amperometric sensor) operation is adjusted in the closing phase, at normal speed - Motor 1.		
PNo2	The anti-crash device* (amperometric sensor) operation is adjusted in the opening phase, at normal speed - Motor 2.	1-99-(50%)**	
ΡΠς 2	The anti-crash device* (amperometric sensor) operation is adjusted in the closing phase, at normal speed - Motor 2.		
PSo I	The anti-crash device* (amperometric sensor) operation is adjusted in the opening phase, at reduced speed - Motor 1.		
PSc (The anti-crash device* (amperometric sensor) operation is adjusted in the closing phase, at reduced speed - Motor 1.	1-99-(20%)**	
P5o2	The anti-crash device* (amperometric sensor) operation is adjusted in the opening phase, at reduced speed - Motor 2.	1-99-(20%)**	
PSc2	The anti-crash device* (amperometric sensor) operation is adjusted in the closing phase, at reduced speed - Motor 2.	1-99-(20%)**	
EdNo	Mot.2 opening delay time. Regulates the delay time of motor 2 on opening with respect to motor 1	0-15-(2s)	
EdNc	Mot.1 closing delay time Regulates the delay time of motor 1 on closing with respect to motor 2	0-40-(3s)	
£LS	SERL contact activation time (Service light) 29/30 terminals. At each manoeuvre the contact closes for the set time. See Figure 4 connection scheme.		
ŁLoc	Electric lock activation time. The value is expressed in 1/10s (0=0s - 50=5s)	0-50 (5=0,5s)	
SERU	The intervention threshold of the anti-crashing device (Encoder) during the phase at normal speed is adjusted.* 0:Off-1:minimum sensitivity - 99: maximum sensitivity	0-99-(0%)	
SERr	The intervention threshold of the anti-crashing device (Encoder) during braking is adjusted *. 0:Off-1:minimum sensitivity - 99: maximum sensitivity	0-99-(0%)	
E Inc	This parameter is enabled only for motors equipped with Encoder. The encoder inhibition is regulated near the opening and closing mechanical stoppers. 1: minimum distance – 250: maximum distance	1-250-(250)	

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	Select the operating mode of the auxiliary output AUX1 (Free Contact N.O.) 0: Open gate warning (SCA), indicates gate status: closed contact when gate open, open contact when gate closed, intermittent during operation (fig.3)		
RUH I	 Second preset receiver radio channel (see radio menu - 2CH) Courtesy light, the duration of the contact closure is adjustable by the TLS parameter (fig.4). Zone light: the contact closes for the duration of the operation and for the duration of the TCA, it opens again when the gate is closed. Photocell power supply checked, see connection diagram Fig.5 (ref. PHOTOTEST and TST1 logic) 	0-4-(0)	
RUH2	 Select the operating mode of the auxiliary output AUX2 (Free Contact N.O.) 0: Open gate warning (SCA), indicates gate status: closed contact when gate open, open contact when gate closed, intermittent during operation (fig.3) 1: Second preset receiver radio channel (see radio menu - 2CH) 2: Courtesy light, the duration of the contact closure is adjustable by the TLS parameter (fig.4). 3: Zone light: the contact closes for the duration of the operation and for the duration of the TCA, opens again when the gate is closed. 	0-3-(1)	
	* WARNING:		

AN INCORRECT SETTING OF THESE PARAMETERS MAY RESULT IN AN HAZARD. COMPLY WITH REGULATIONS IN FORCE!

With motors without limit switch and/or encoder it adjusts the sensitivity of the sensor which causes arrest during slowing phase.

** 1: minimum force/torque - 99: maximum force/torque.

The control unit is equipped with two ant-crash devices, the amperometric sensor (regulated by parameters PMO1/2-PMC1/2-PSO1/2-PSC1/2) and the encoder (regulated by parameters SEAV and SEAR).

The sensitivity of the amperometric sensor is regulated by default through the Autoset procedure, while the encoder (with the default set) is activated only when the gate stops completely when it hits an obstacle.

The use of one system at a time is recommended, giving preference to the amperometric sensor, which has a lower response time.

5.2) LOGIC (டவி)			
MENU	FUNCTION	ON-OFF-(Default)	MEMO
£cR	Enables or disables automatic closing On: automatic closing enabled Off: automatic closing disabled	(ON)	
IЪL	Enables or disables condominium function. On: condominium function enabled. The step-by-step impulse or transmitter impulse has no effect during the opening phase. Off: condominium function disabled.	(OFF)	
ІьсЯ	The multi-flat function is enabled or disabled during the TCA counting. On: the bloc of flat function is enabled. The Step-by-Step signal or the transmitter signal has no effect during the TCA counting. Off: the bloc of flat function is disabled.	(OFF)	
Sel	Enables or disables rapid closing On: rapid closure is enabled. With open gate, or in the opening phase, the activation of the photocell causes the automatic closure 3sec after the total opening of the gate. It is activated only with TCA:ON Off: rapid closing disabled.	(OFF)	
PP	Selects the operating mode of the "Step by step button" and of the transmitter. On: Operation: OPEN > CLOSE > OPEN > (OFF) Off: Operation: OPEN > STOP > CLOSE > STOP > (OFF)		
PrE	Enables or disables pre-blinking. On: Pre-blinking enabled. Blinking is activated 3s before the motor starts. Off: Pre-blinking disabled.	(OFF)	
ҺЯЛ	Enables or disables the inversion stroke function On: Function enabled. Before each opening manoeuvre the control unit orders a manoeuvre of 2s in the opposite direction to facilitate the release of the electric lock. Off: Function disabled.	(OFF)	
δίεο	Enables or disables the block function in opening. On: Block function enabled. To use only with motors equipped with Limit switch. After the intervention of the opening Limit switch the control unit delays arrest by about 0.5s, so to allow a better strike of the shutter on the stop locks. Off: Block function disabled	(OFF)	
bLcc	Enables or disables the block function in closing. On: Block function enabled. To use only with motors equipped with Limit switch. After the intervention of the opening Limit switch the control unit delays arrest by about 0.5s, so to allow (OFF) a better strike of the shutter on the stop locks. Off: Block function disabled.		
Soft	Enables or disables start at decreased speed*. On: Executes start ups at decreased speed for 2 seconds to then shift to normal speed. ((Off: Start at decreased speed not active. ((
LEcA	Selects the operating mode of the blinking light during the time TCA (OFF) On: Blinking light on during TCA (OFF) Off: Blinking light off during TCA (OFF)		

hEr	Enabled or disables HOLD-TO-RUN function On: HOLD-TO-RUN function. The pressure of the OPENS/CLOSES button must be maintained throughout the entire manoeuvre. The opening of the STOP input stops the motor. All the safety inputs are deactivated, except for the Limit switch inputs /SW01/SW02/SWC1/SWC2). Off: Automatic/semiautomatic function	(OFF)	
Ποτ	The operating mode with 1 or 2 motors is selected: On: The motor operation is synchronised. This function must be used in the following cases: - for each single motor, connect it to M1: Terminals 1/2. - for two synchronised motors (e.g. balancing doors), connect one motor to M1: terminals 1/2 and the other to M2: terminals 3/4. Adjust the parameters related to motor 1, the M2 limit switch inputs are deactivated. TDMO and TDMC must be 0. Off: For two non-synchronised motors, e.g. overlapping gate leaves, adjust TDMO and TDMC on the desired values.	(OFF)	EI
NLoc	Selects the type of electric lock used. On: Magnetic electric lock, normally fed at 12Vdc. Power is cut off to the electric lock output before each opening and closing operation. Off: Electric lock with latch, normally not fed. Before each opening manoeuvre power is fed at 12Vdc for the time set by the parameter TLOC.		
ьь	Activates or deactivates the push in closing function. Only with logic SLD:ON On: The last second of the manoeuvre in closing phase is carried out at normal speed (disabling slowing) to favour a better hook of the electric lock. Off: Function disabled.	(OFF)	
E2E 1	Enables or disables checking of photocells on PHOT input, active both in closing and in opening. On: Check enabled. If the check has a negative result, no manoeuvre is commanded. See Fig.3 - "PHOTO TEST". Off: Checking of photocells disabled at each manoeuvre.	(OFF)	
£5£2	Enables or disables checking of photocells on PHOT inputs, active only in closing. On: Check enabled. If the check has a negative result, no manoeuvre is commanded. See Fig.3 - "PHOTO TEST". Off: Checking of photocells disabled at each manoeuvre.		
ЕЗЕЛ	Enables or disables motors check. On: Check enabled. If the check has a negative result, no manoeuvre is commanded. (OFF) Off: Check disabled. Off: Check disabled. (OFF)		
rΕΠ	(Enables or disables remote radiotransmitters learning, as indicated in the paragraph "Remote transmitters learning". On: Remote learning enabled. Off: Remote learning not enabled.	(OFF)	

CAUTION:

Any change to one of these parameters/logic: SPD1 - SPD2 - SLD1 - SLD2 -TSM1 - TSM2 - SOFT involves a complete operation at reduced speed. The PRG message is displayed.

	5.3) RADIO (^{, R} d)		
MENU	FUNZIONE		
PP	By selecting this function, the receiver goes in waiting ($PU5h$) for a transmitter code to assign to the step-step function. Press the key of the transmitter to assign to this function. If the code is valid, it is memorised and the message σH is displayed If the code is not valid, the message E_{rr} is displayed		
Zch	By selecting this function, the receiver goes into waiting (<i>PUSh</i>) for a transmitter code to assign to the second radio channel. Press the key of the transmitter to assign to this function. If the code is valid, it is memorised ad the oH message is displayed If the code is not valid, the message <i>Err</i> is displayed.		
PEd	By selecting this function, the receiver goes into waiting (<i>PUSh</i>) for a transmitter code to assign to the pedestrian opening function (see parameter TPED). Press the key of the transmitter to assign to this function. If the code is valid, it is memorised ad the off message is displayed If the code is not valid, the message <i>Err</i> is displayed.		
cLr	 By selecting this function, the receiver goes into waiting (PU5h) for a transmitter code to erase from the memory. If the code is valid, it is erased and the message oH is displayed If the code is not valid or not present in memory, the message Err is displayed 		
rtr	Completely erases memory of the receiver. Confirmation of the operation is requested. By selecting this function the receiver goes into waiting (PUSh) for a new PGM pressure to confirm At end of erasing the oH message is displayed	n the operation.	
	5.4) CYCLES NUMBER (กมีสิก)		
Displays the	Displays the number of complete cycles (open+close) carried out by the automation.		

When the <PG> button is pressed for the first time, it displays the first 4 figures, the second time it shows the last 4. Example <PG> \square i >>> <PG> 3455: made 123.456 cycles.

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5.5) MAINTENANCE CYCLES (TRc 1)

This function enables to activate the maintenance request notice after a number of manoeuvres determined by the installer.

To activate and select the number of manoeuvres, proceed as follows:

Press button <PG>, the display will show OFF, which indicated that the function is disabled (default value).

With the buttons <+> and <-> select one of the numeric values proposed (from OFF to 100). The values are intended as hundreds of cycles of manoeuvres (for example: the value 50 indicates 5000 manoeuvres).

Press the OK button to activate the function. The display will show the message ProL.

The maintenance request is indicated to the user by keeping the indicator lamp lit up for other 10 sec after the conclusion of the opening or closing operation.

5.6) RESET (r 25)

RESET of the control unit. ATTENTION !: Returns the control unit to the default values. Pressing the <PG> button for the first time causes blinking of the letters r E5, pressing the <PG> button again resets the control unit. Note: The transmitters are not erased from the receiver nor is the access password. All the logics and all the parameters are brought back to default values, it is therefore necessary to repeat the autoset procedure.

5.7) AUTOSET (RULo)

See AUTOSET paragraph

5.8) PROTECTION CODE (codE)

It allows to type in an access protection code to the programming of the control unit.

A four-character alphanumeric code can be typed in by using the numbers from 0 to 9 and the letters A-B-C-D-E-F.

The default value is 0000 (four zeros) and shows the absence of a protection code.

While typing in the code, this operation can be cancelled at any moment by pressing keys + and - simultaneously. Once the password is typed in, it is possible to act on the control unit by entering and exiting the programming mode for around 10 minutes in order to allow adjustments and tests on functions.

By replacing the 0000 code with any other code, the protection of the control unit is enabled, thus preventing the access to any other menu. If a proc tection code is to be typed in, proceed as follows:

- select the Code menu and press OK.

- the code 0000 is shown, also in the case a protection code has been previously typed in.

- the value of the flashing character can be changed with keys + and -.

- press OK to confirm the flashing character, then confirm the following one.

- after typing in the 4 characters, a confirmation message "CONF" appears.

- after a few seconds, the code 0000 appears again

- the previously stored protection code must be reconfirmed in order to avoid any accidental typing in.

If the code corresponds to the previous one, a confirmation message "oH" appears.

The control unit automatically exits the programming phase. To gain access to the Menus again, the stored protection code must be typed in.

IMPORTANT: TAKE NOTE of the protection code and KEEP IT IN A SAFE PLACE for future maintenance operations.

To remove a code from a protected control unit it is necessary to enter into programming with the password and bring the code back to the 0000 default value.

IF YOU LOOSE THE CODE, PLEASE CONTACT THE AUTHORISED SERVICE CENTER FOR THE TOTAL RESET OF THE CONTROL UNIT.

6) TRANSMITTERS REMOTE LEARNING

If an already memorised transmitter is available in the receiver it is possible to carry out remote radio learning (without needing to access the control unit). IMPORTANT: The procedure must be carried out with leaves in opening during TCA pause or with an open gate if the TCA logic is OFF. The **REM** logic must be ON.

Proceed as follows:

1 Press the hidden key of the transmitter which is already memorised.

2 Press, within 5s, the key of the corresponding transmitter which is already memorised to associate to the new transmitter. The flashing light will turn on. 3 Press within 10s the hidden key of the new transmitter.

4 Press, within 5s, the key of the new transmitter to associate to the channel chosen at point 2. The flashing light will turn off.

5 The receiver memorised the new transmitter and immediately exits from programming.

7) FUSES

F3 HYBRA 24:

T2A - Fuse for the protection of the accessories power supply

F1 SAR.24V: T4A - Fuse for general protection

8) BACK UP BATTERIES

The control unit HYBRA 24 includes the power pack SAR.24V predisposed for the connection in series of two batteries by 12Vdc 2,1Ah DA.BT2 (optional) which guarantee the regular functioning of the automation in case of temporary power failure.

When the barrier is working with mains voltage the power pack SAR.24V charges the batteries (Fig. 1).

The maximum charging current is 1A, the average charging current is 300 mA (Observe the polarity).

Approximate battery recharge time:

1.2 Ah: 2h 6.5 Ah: 8h

9) **DIAGNOSTICS**



One segment of the display is linked to each input. In the event of failure it switches on according to the following scheme.

N.C. inputs are represented by the vertical segments. N.O. inputs are represented by the horizontal segments.

The control unit sees the message AMP1 or AMP2 in case of anti-crushing ammeter sensor intervention.

10) ERROR MESSAGES

Some messages that are displayed in case of function anomalies are listed as follows:

RNP I	Obstacle error motor 1/anti-crushing	Check presence of obstacles on motor 1 leaf run	
8065	Obstacle error motor 2/anti-crushing	Check presence of obstacles on motor 2 leaf run	
Enc 1	Error, encoder 1/detection of the obstacle	Check the correct connection of motor 1 encoder to the control unit, that no obstact are present along the gate stoke and the encoder operates correctly.	
Enc2	Error, encoder 2/detection of the obstacle	Check the correct connection of motor 2 encoder to the control unit, that no obstacles are present along the gate stoke and the encoder operates correctly.	
Err I	Motor 1 circuit checking error	Check motor 1 connections	
Err2	Motor 2 circuit checking error	Check motor 2 connections	
Err3	error/fault power circuit	Request technical assistance and eventually replace control unit.	
Erry	PHOTA photocell checking error	Check connections, PHOT A photocell alignment or presence of obstacles.	
ErrS	PHOTC photocell checking error	Check connections, PHOTC photocell alignment or presence of obstacles.	
Errb	Error edge active (during autoset)	In autoset phase, the safety edge has intervened.	
Errl	Error active stop (during autoset)	In autoset phase, the STOP input has intervened.	
Err8	Error active input (during autoset)	In autoset phase a PP/Open/Close input has intervened.	
<u></u> ΕԻΠ Ι	Motor 1 thermal protection intervention	Wait for motor M1 cooling, in case reset does not take place, motor replacement may be necessary	
FPUS	Motor 2 thermal protection intervention	Wait for motor M2 cooling, in case reset does not take place, motor replacement may be necessary	
coN 1	Motor 1 communication error	Only for HD.3524 and HD.5024 motors: Communication error between motor Encoder and central unit, check Motor 1 Encoder connections	
coN2	Motor 2 communication error	Only for HD.3524 and HD.5024 motors: Communication error between motor Encoder and central unit, check Motor 2 Encoder connections	
ЪЯг	Activating BAR input	BAR input has detected an obstacle.	

 Premere le alette sui fianchi per sganciare le due maschere copriviti.
 Rimuovere le due viti sul lato di apertura desiderato.

3. Allentare le viti con funzione di cerniera senza rimuoverle, in modo da consentire l'apertura del coperchio.

 Press the tabs on the sides to release the two masks that cover the screws.
 Remove the two screws on the desired opening side.

3. Slacken the two screws that act as a hinge without removing them, so as to allow opening the cover.

1. Auf die seitlichen Laschen drücken, so dass die beiden Schraubenblenden befreit werden.

 Die beiden Schrauben an der gewünschten Öffnungsseite ausbauen.
 Zuletzt die beiden als Scharnier dienenden Schrauben lockern, aber nicht ausbauen, damit der Deckel geöffnet werden kann. 1. Presser les deux ailettes latérales pour décrocher les deux cache-vis.

2. Enlever les deux vis sur le côté

d'ouverture désiré.

3. Desserrer les deux vis faisant fonction de charnière sans les enlever, de manière à permettre l'ouverture du convercle.

 Presionar las aletas en los lados para desenganchar las dos tapas cubretornillos.
 Extraer los dos tornillos del lado de apertura desaedo.

3. Afojar los dos tornillos con función de bisagra sin extraerlos, a fin de poder abrir la tapa.

1. Nacisnąć boczne klapki w celu odhaczenia dwóch masek nakry-wających śruby.

2. Wyciągnąć dwie śruby po wybranej do otwierania stronie.

 Poluzować dwie śruby blokujące bez wyciągania ich, w sposób umożliwiający otwarcie nakrywki.









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