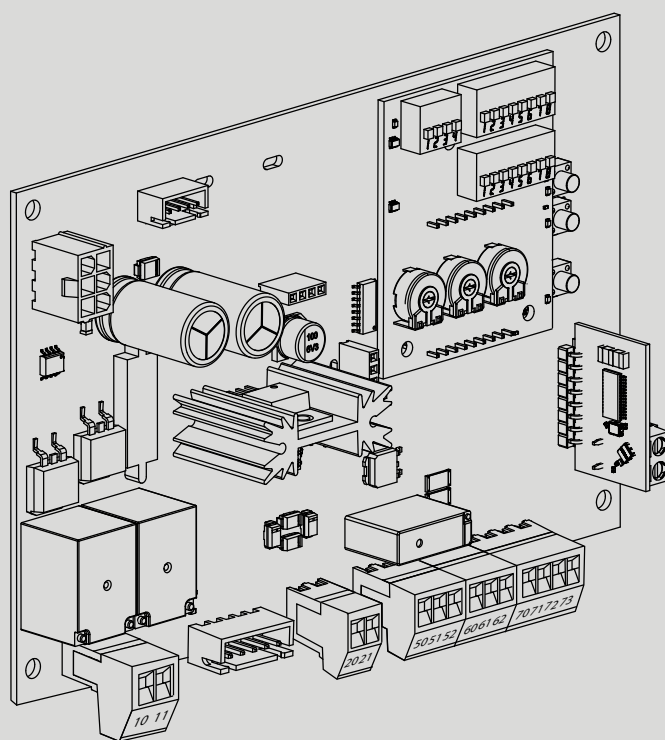


QUADRO COMANDO
CONTROL PANEL
TABLEAU DE COMMANDE
SELBSTÜBERWACHENDE STEUERUNG
CUADRO DE MANDOS
BEDIENINGSPANEEL



ISTRUZIONI DI INSTALLAZIONE
INSTALLATION MANUAL
INSTRUCTIONS D'INSTALLATION
MONTAGEANLEITUNG
INSTRUCCIONES DE INSTALACION
INSTALLATIEVOORSCHRIFTEN

HAMAL BT A

Bft

IT	LINGUA ORIGINALE
EN	TRANSLATED VERSION
FR	VERSION TRADUITE
DE	ÜBERSETZTE VERSION
ES	VERSIÓN TRADUCIDA
NL	VERTAALDE VERSIE



UK
CA



AZIENDA CON
SISTEMA DI GESTIONE
CERTIFICATO DA DNV GL
= ISO 9001 =
= ISO 14001 =



U-Security



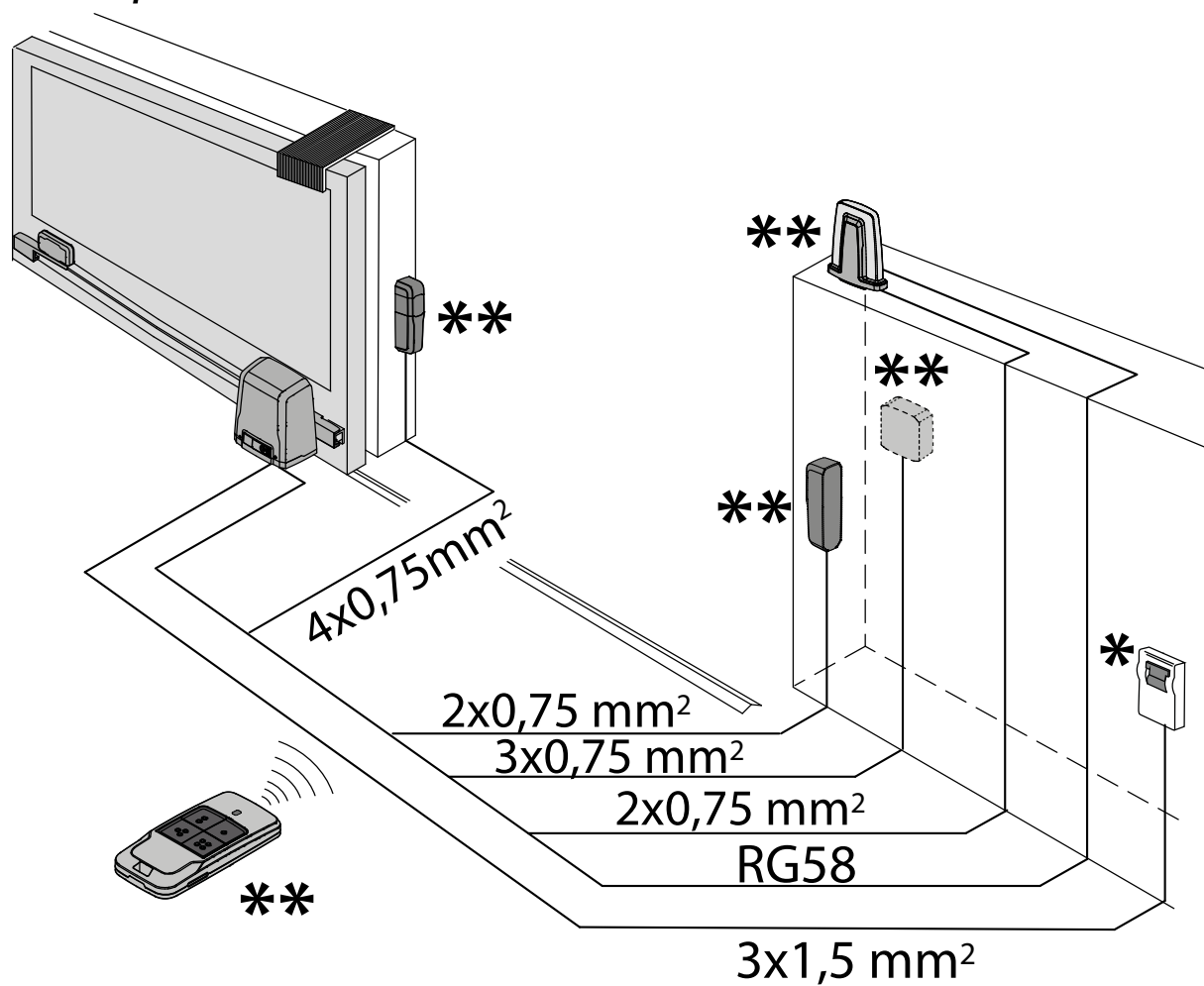
24 V

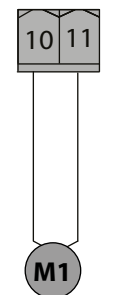
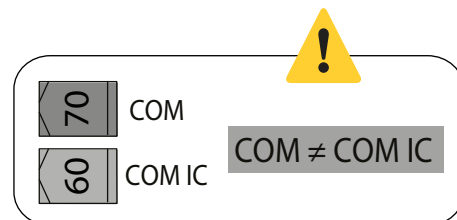
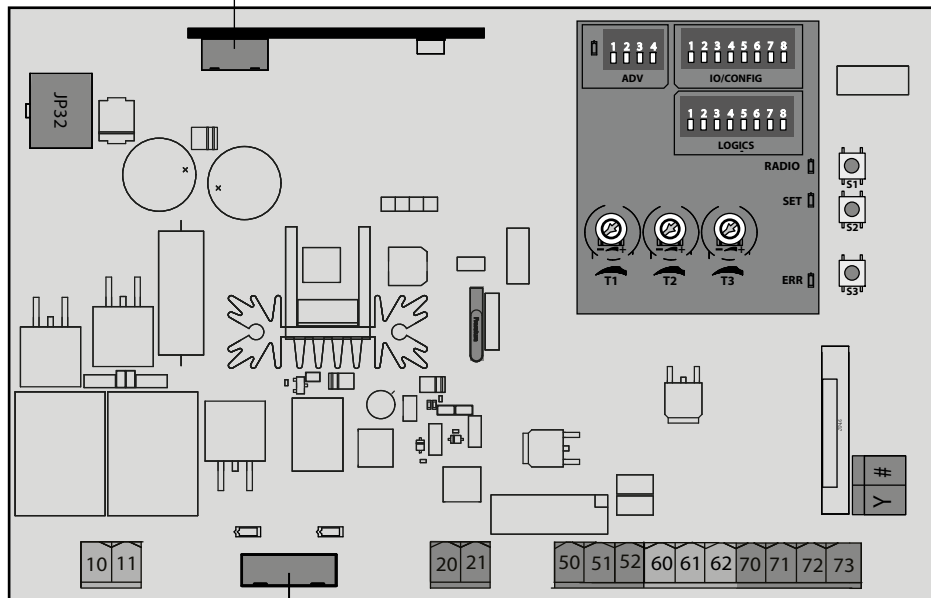
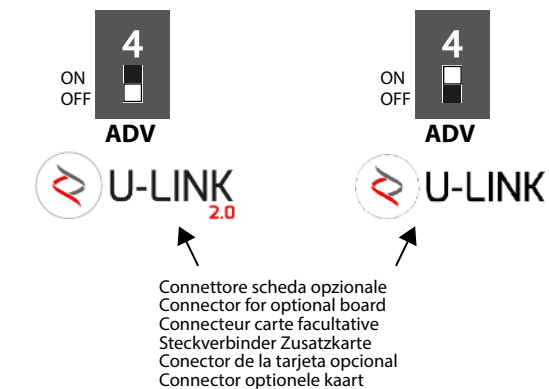
**PREDISPOSIZIONE TUBI
TUBE ARRANGEMENT
PRÉDISPOSITION DES TUYAUX
VORBEREITUNG DER LEITUNGEN
DISPOSICIÓN DE TUBOS
VOORBEREIDING LEIDINGEN**

A

D814460 0AR00_06

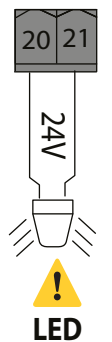
Example



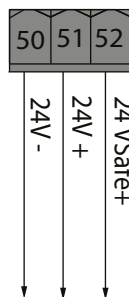


Connettore finecorsa
Limit switch connector
Connecteur de fin de course
Steckverbinder Endschalter
Conector final de carrera
Connector eindaanslag

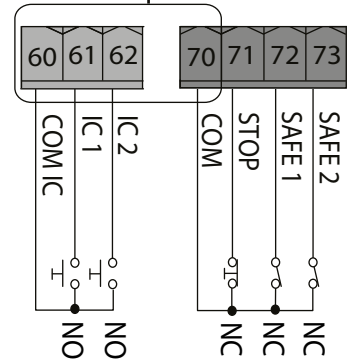
Motore
Motor
moteur
Motor
Eindaanslag
Encoder



AUX



Alimentazione accessori
Accessories power supply
Alimentation des accessoires
Stromversorgung Zubehör
Alimentación accesorios
Voeding accessoires



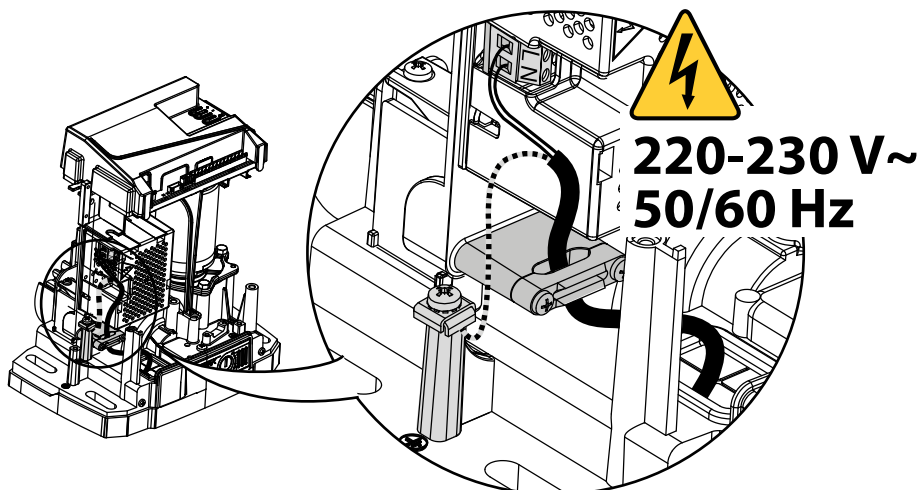
Comandi
Commands
Commandes
Bedienelemente
Mandos
Commando's

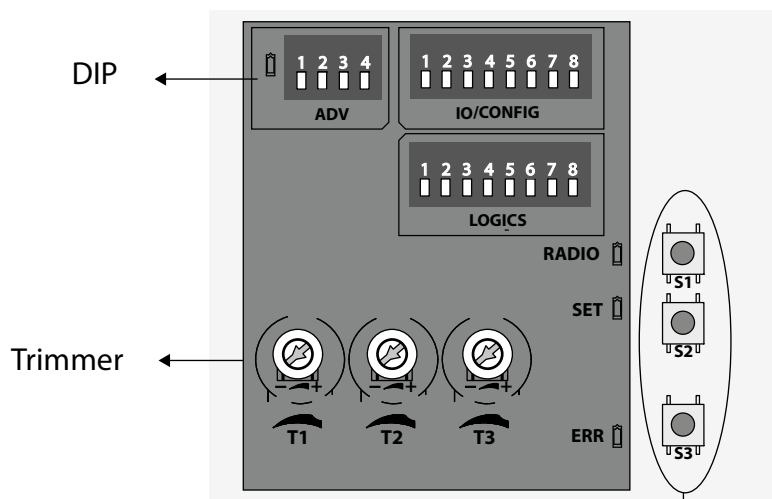
Sicurezze
Safety devices
Sécurité
Sicherheitsvorrichtungen
Dispositivos de seguridad
Veiligheden



Antenna
Antenne
Antena
Antenne

	10	11	
	Ares	Deimos	Ares/Deimos
IT	Nero	Blu	Rosso
EN	Black	Blue	Red
FR	Noir	Bleu	Rouge
DE	Schwarz	Blau	Rot
ES	Negro	Azul	Rojo
NL	Zwart	Blauw	Rood





tasti programmazione
programming keys
touches de programmation
Programmierungstasten
botones de programación
toetsen programmeur



T1

Tempo chiusura automatica
Automatic closing time
Temps fermeture automatique
Zeit Schließung automatisch
Tiempo cierre automático
Tijd automatische sluiting



T2

Forza ante
Leaf force
Leaf force
Kraft Flügel
Fuerza hojas
Kracht vleugels



T3

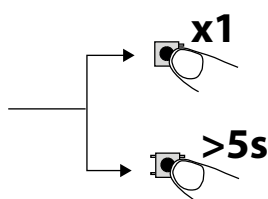
Spazio rallentamento
Slow-down distance
Distance ralentissement
Raum Verlangsamung
Espacio de deceleración
Vertragsafstand

S1



Aggiungi START da trasmettitore - Add START from transmitter
Ajoutez DÉMARRAGE depuis l'émetteur - START über den Sender hinzufügen
Agregar START desde el transmisor - START vanaf zender toevoegen

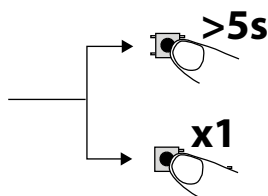
S2



Aggiungi 2° canale radio - Add 2nd radio channel
Ajouter 2e canal radio - 2. Funkkanal hinzufügen
Agregar 2° canal radio - 2e radiokanaal toevoegen

Convalida delle modifiche - Validation of changes
Validez les modifications - Bestätigung der Änderungen
Validación de las modificaciones - Bevestiging van de wijzigingen

S3

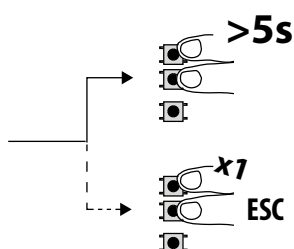


avvio autoset - start autoset - lancement de l'autoset
Autoset-Start - inicio autoset - autoset starten

START/STOP - START/STOP - DÉMARRAGE/ARRÊT
START/STOP - START/STOP - START/STOP

S1

S2

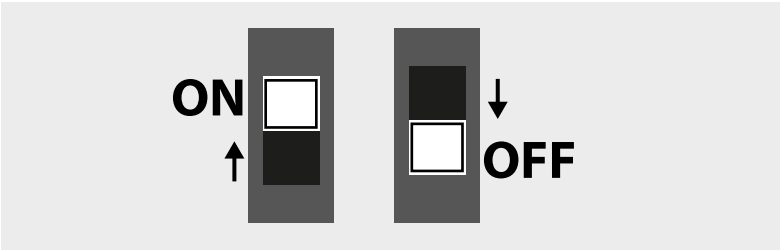


cancellazione trasmettitori - transmitters cancellation
annulation des émetteurs - löschen der sender
eliminación transmisores - wissen zenders

Durante il LOW ENERGY fa uscire dal LOW-ENERGY
During LOW ENERGY exits from LOW-ENERGY
Pendant le LOW ENERGY, permet de sortir du LOW ENERGY
Veranlasst Verlassen von LOW ENERGY während LOW ENERGY
Durante el LOW ENERGY, permite salir del LOW-ENERGY
Tijdens LOW ENERGY doet de LOW-ENERGY verlaten

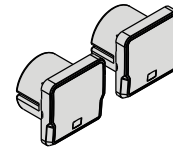
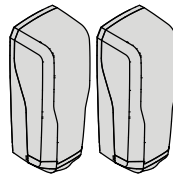
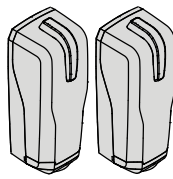
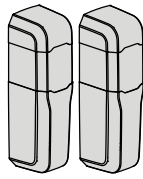


LEGENDA - KEY - LÉGENDE - LEGENDE - LEYENDA - LEGENDA



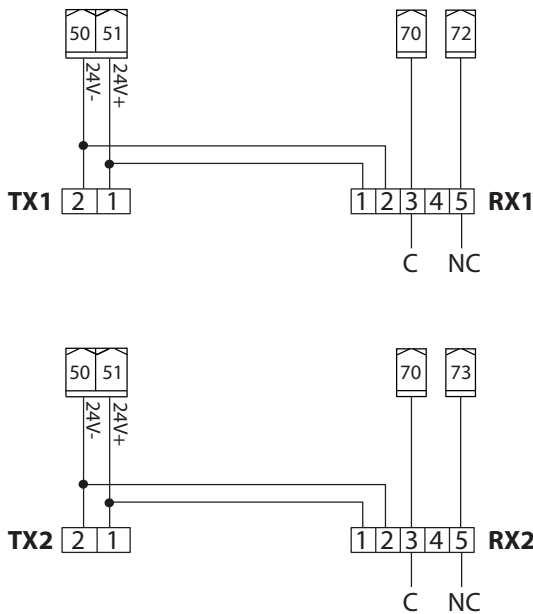
	ADV
1234 ADV	DIP programmazione funzioni avanzate Rif.tab. ADV
	Advanced functions programming DIP switch Ref. table ADV
	DIP programmation de fonctions avancées Réf. tabl. ADV
	DIP Programmierung Erweiterte Funktionen Ref. Tab. ADV
	DIP programación funciones avanzadas Ref.tab. ADV
	DIP-programmering geavanceerde functies Ref.tab. ADV
	IO/CONFIG
12345678 IO/CONFIG	DIP programmazione configurazioni I/O Rif.tab. I/O config
	I/O configurations programming DIP switch Ref. tab. I/O config
	DIP programmation configurations E/S Réf. Tabl. I/O config
	DIP Programmierung Konfigurationen E/A Ref. Tab. I/O config
	DIP programación configuraciones I/O Ref.tab. I/O config
	DIP-programmering I/O configuraties Ref.tab. I/O config
	LOGICS
12345678 LOGICS	Dip programmazione logiche di funzionamento Rif. tab. logiche
	Operating logic programming DIP switch Ref. tab. logic
	Dip programmation des logiques de fonctionnement Réf. tabl. logiques
	DIP Programmierung Betriebslogiken Ref. Tab. Logiken
	Dip programación lógicas de funcionamiento Ref. tab. lógicas
	Dip-programmering van besturingslogica Ref. tab. -logica

SAFE 1 / SAFE 2 Connection Example



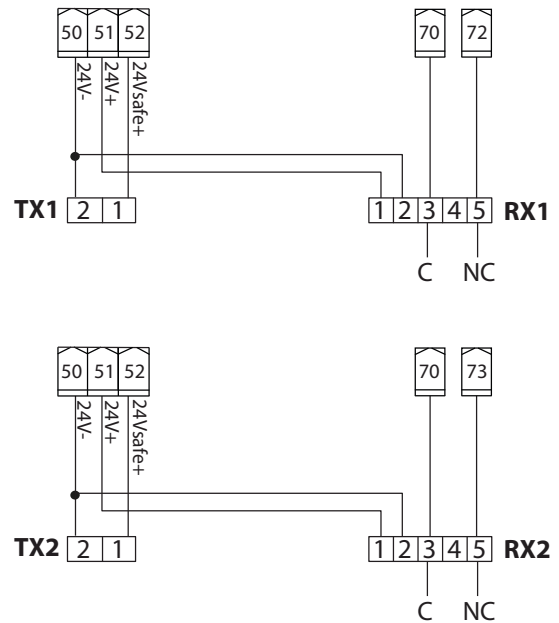
Fotocellule non verificate (Check ogni 6 mesi)
Photocells not checked (Check every 6 months)
Photocellules non vérifiées (contrôle tous les 6 mois)
Fotozellen nicht überprüft (alle 6 Monate überprüfen)
Fotocélulas no controladas (Control cada 6 meses)
Fotocellen niet gecontroleerd (Check elke 6 maanden)

C



Fotocellula verificata
Photocell checked
Photocellule vérifiée
Fotocelle überprüft
Fotocélula controlada
Fotocel gecontroleerd

D



ITALIANO

E' NECESSARIO SEGUIRE QUESTA SEQUENZA DI REGOLAZIONI:

- 1 - Autoset
- 2 - Programmazione radiocomando
- 3 - Eventuali regolazioni dei parametri / logiche

Dopo ogni modifica della posizione dei fincorsa e' necessario eseguire un nuovo autoset.

Dopo ogni modifica del tipo motore e' necessario eseguire un nuovo autoset.

ENGLISH

IT IS NECESSARY TO FOLLOW THIS SEQUENCE OF ADJUSTMENTS:

- 1 - Autoset
- 2 - Programming remote controls
- 3 - Setting of parameters/logic, where necessary

After each adjustment of the end stop position a new autoset is required.
After each modification of the motor type, a new autoset must be carried out

FRANÇAIS

VOUS DEVEZ OBLIGATOIREMENT SUIVRE CETTE SÉQUENCE DE RÉGLAGES:

- 1 - Réglage automatique (autoset)
- 2 - Programmation de la radiocommande
- 3 - Réglages éventuels des paramètres / logiques

Chaque fois que vous modifiez la position des fins de course vous devez procéder à un nouveau autoset.
Après avoir modifié le type de moteur, vous devez effectuer un nouveau réglage automatique.

DEUTSCH

DIESE SEQUENZ DER EINSTELLUNGEN MUSS BEFOLGT WERDEN:

- 1 - Autoset
- 2 - Programmierung fernbedienung
- 3 - Eventuelle einstellungen der parameter / logiken

Nach jeder änderung der position der endschalter musse in neuer autoset ausgeführt werden.

Nach jeder änderung des motortyps muss ein neuer autoset ausgeführt werden.

ESPAÑOL

ES NECESARIO SEGUIR ESTA SECUENCIA DE AJUSTES:

- 1 - Autoset
- 2 - Programación de radiomando
- 3 - Eventuales regulaciones de los parámetros / lógicas

Después de cambiar la posición de los interruptores de tope es necesario realizar un nuevo autoset.

Después de cambiar el tipo de motor es necesario realizar un nuevo autoset.

NEDERLANDS

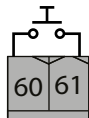
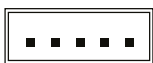
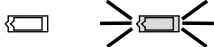
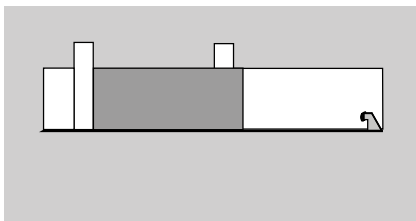
VERRICHT DE VOLGENDE REGELINGEN:

- 1 - Autoset
- 2 - Programmering afstandsbediening
- 3 - Eventuele regelingen van de parameters / logica's

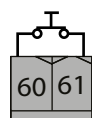
Verricht na elke wijziging van de positie van de eindaanslagen een nieuwe autoset.
Dna elke wijziging van het motortype moet een nieuwe autoset worden verricht.

DIAGNOSTICS

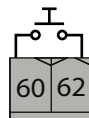
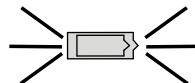
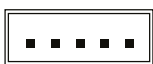
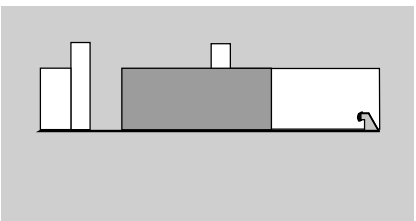
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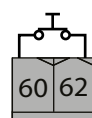
IC1



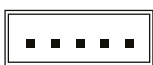
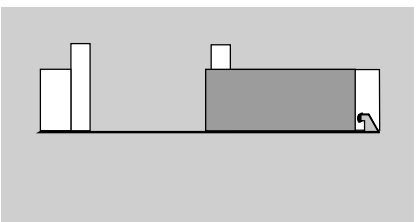
IC1



IC2



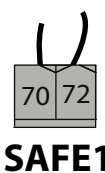
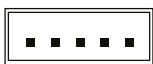
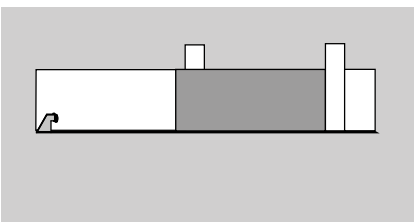
IC2



STOP



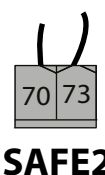
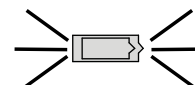
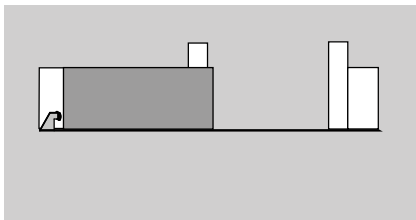
STOP



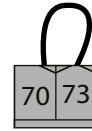
SAFE1



SAFE1



SAFE2



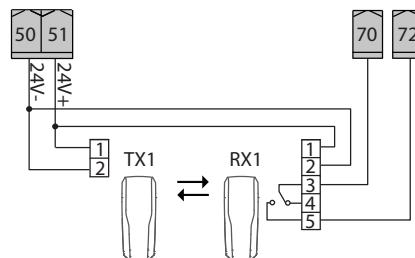
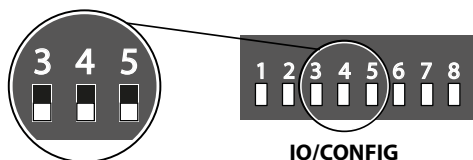
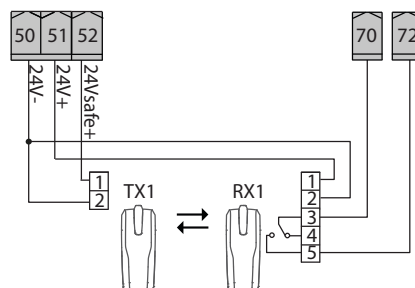
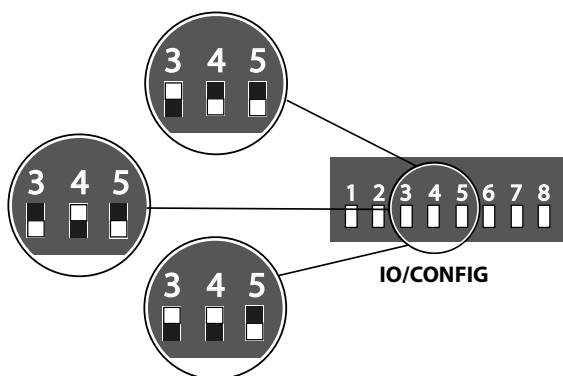
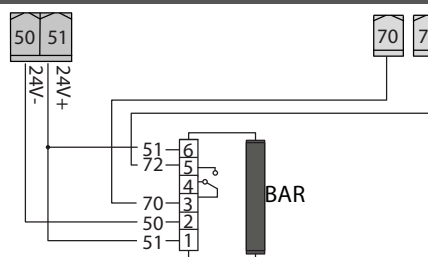
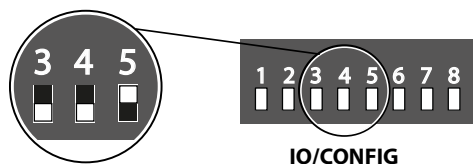
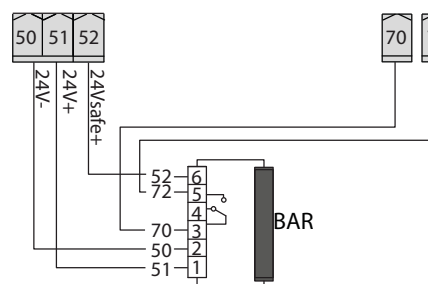
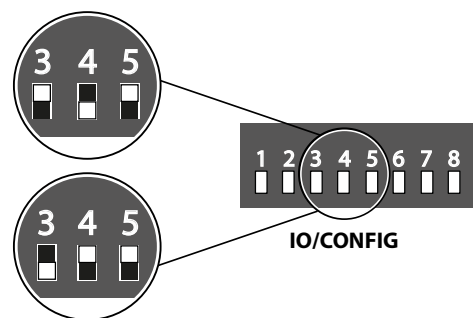
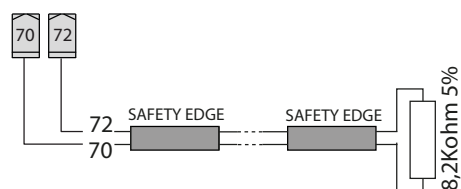
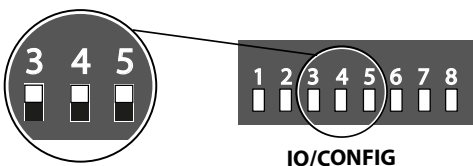
SAFE2

TEST ON

Fotocellula verificata
 Photocell checked
 Photocellule vérifiée
 Fotozelle überprüft
 Fotocélula controlada
 Fotocel gecontroleerd

TEST OFF

Fotocellule non verificate (Check ogni 6 mesi)
 Photocells not checked (Check every 6 months)
 Photocellules non vérifiées (contrôle tous les 6 mois)
 Fotozellen nicht überprüft (alle 6 Monate überprüfen)
 Fotocélulas no controladas (Control cada 6 meses)
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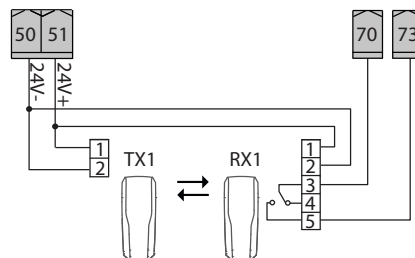
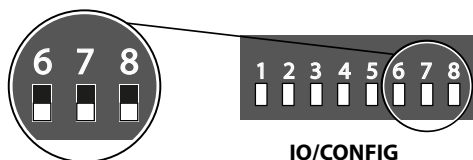
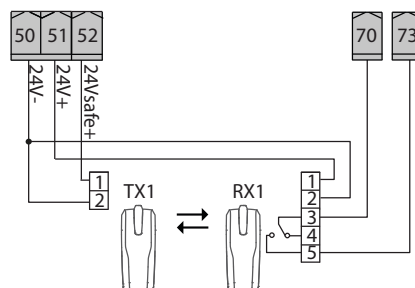
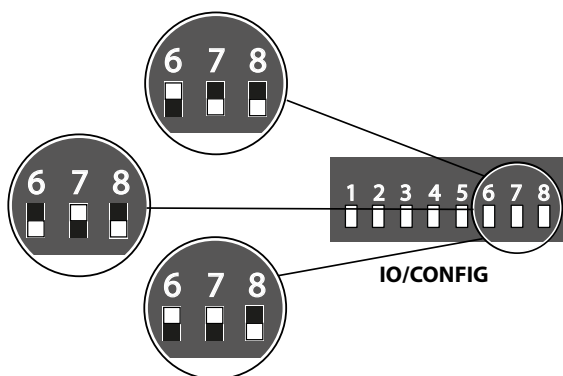
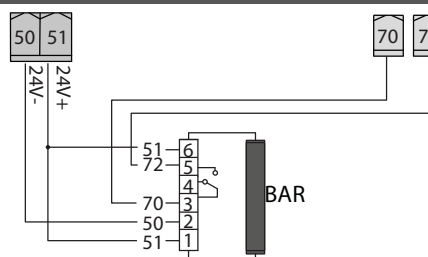
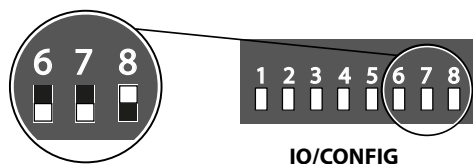
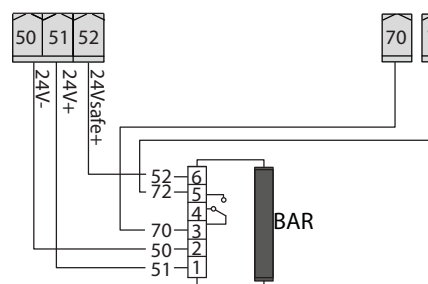
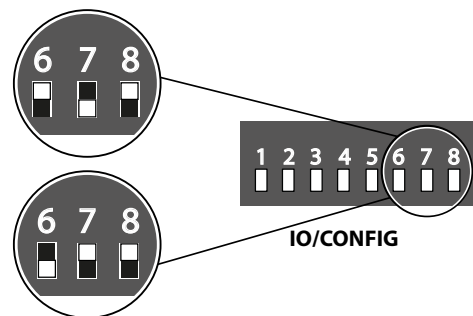
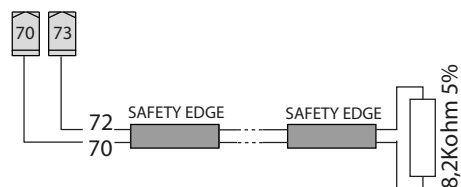
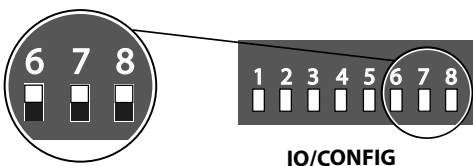
SAFE1**(1 PHOT)****TEST OFF****(1 PHOT / 1 PHOT OP/ 1 PHOT CL)****TEST ON****(1 BAR)****TEST OFF****(1 BAR OP/ 1 BAR CL)****TEST ON****(BAR 8K2)****TEST ON**

TEST ON

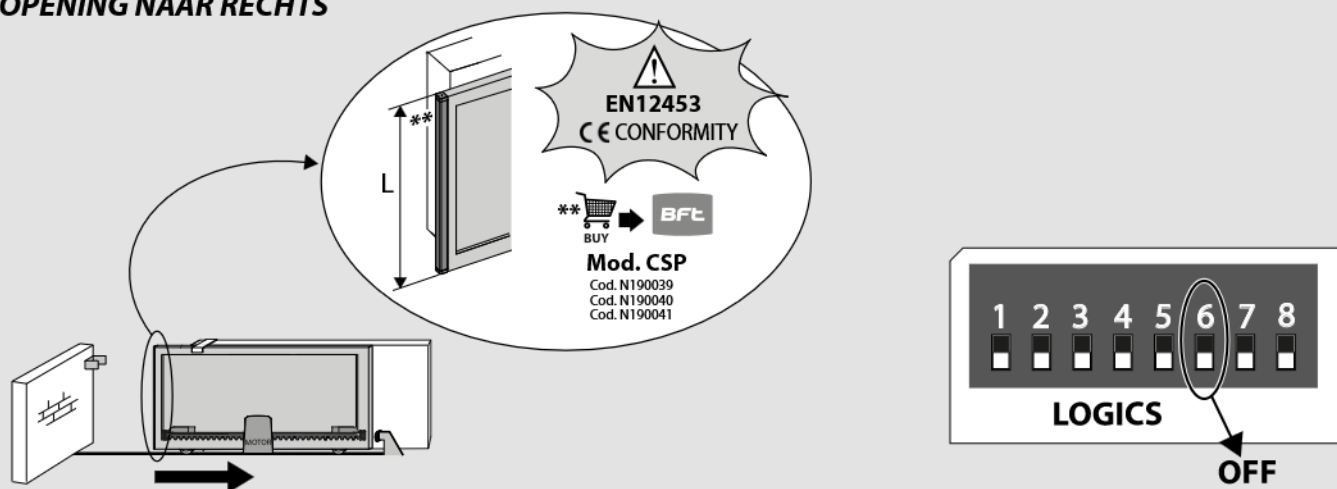
Fotocellula verificata
 Photocell checked
 Photocellule vérifiée
 Fotozelle überprüft
 Fotocélula controlada
 Fotocel gecontroleerd

TEST OFF

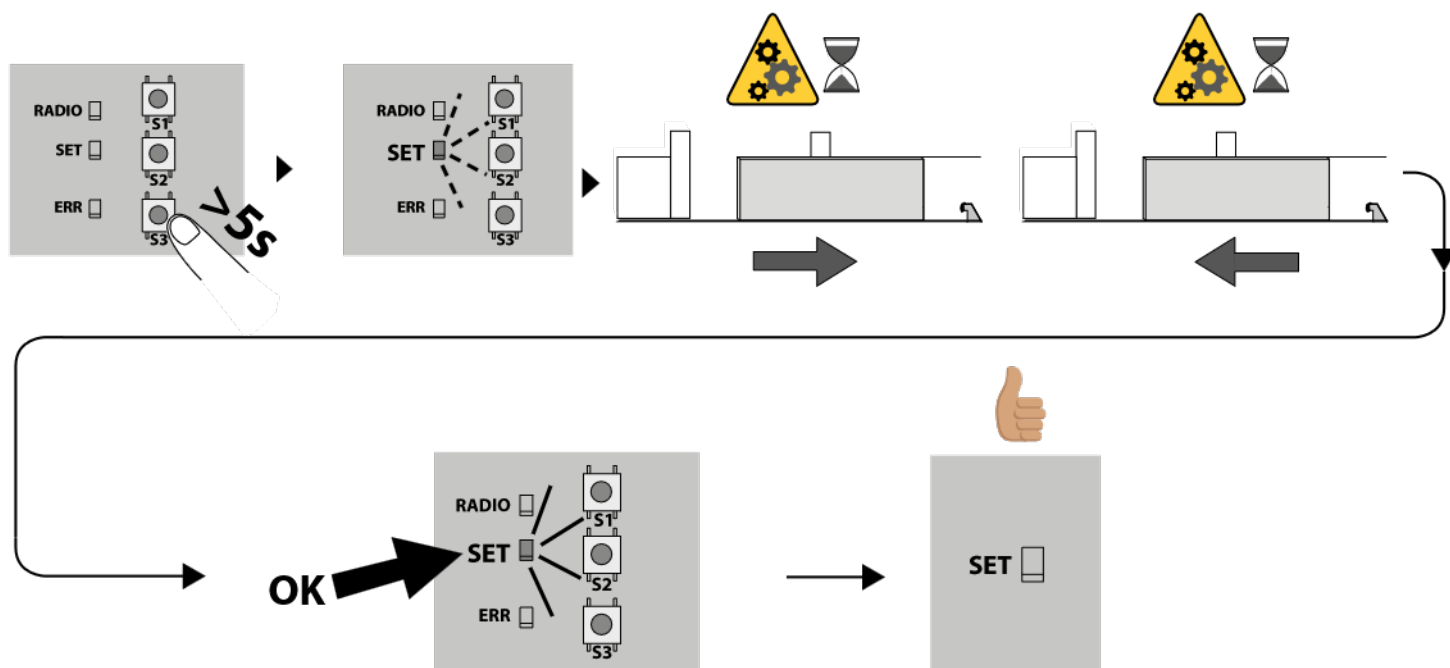
Fotocellule non verificate (Check ogni 6 mesi)
 Photocells not checked (Check every 6 months)
 Photocellules non vérifiées (contrôle tous les 6 mois)
 Fotozellen nicht überprüft (alle 6 Monate überprüfen)
 Fotocélulas no controladas (Control cada 6 meses)
 Fotocellen niet gecontroleerd (Check elke 6 maanden)

SAFE2**(1PHOT)****TEST OFF****(1 PHOT / 1 PHOT OP/ 1 PHOT CL)****TEST ON****(1 BAR)****TEST OFF****(1 BAR OP/ 1 BAR CL)****TEST ON****(BAR 8K2)****TEST ON**

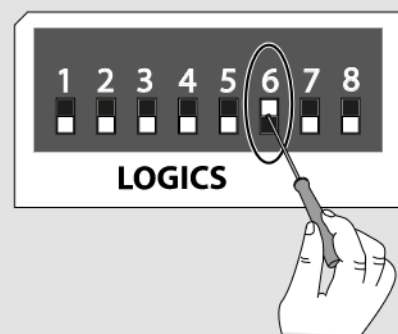
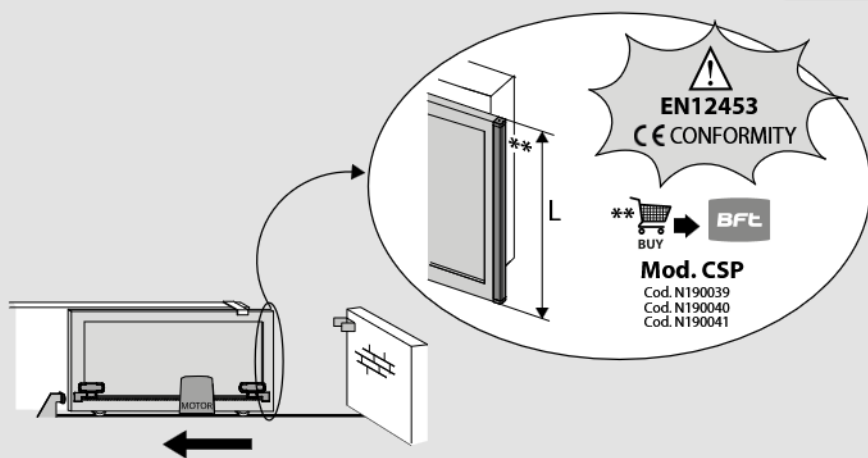
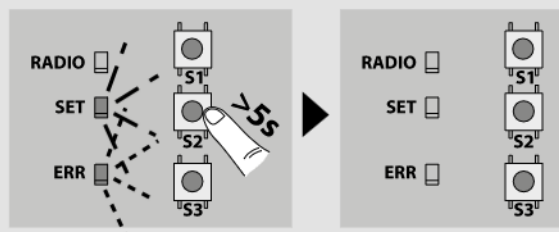
APERTURA VERSO DESTRA
OPENING TO THE RIGHT
OUVERTURE VERS LA DROITE
ÖFFNUNG NACH RECHTS
APERTURA HACIA LA DERECHA
OPENING NAAR RECHTS



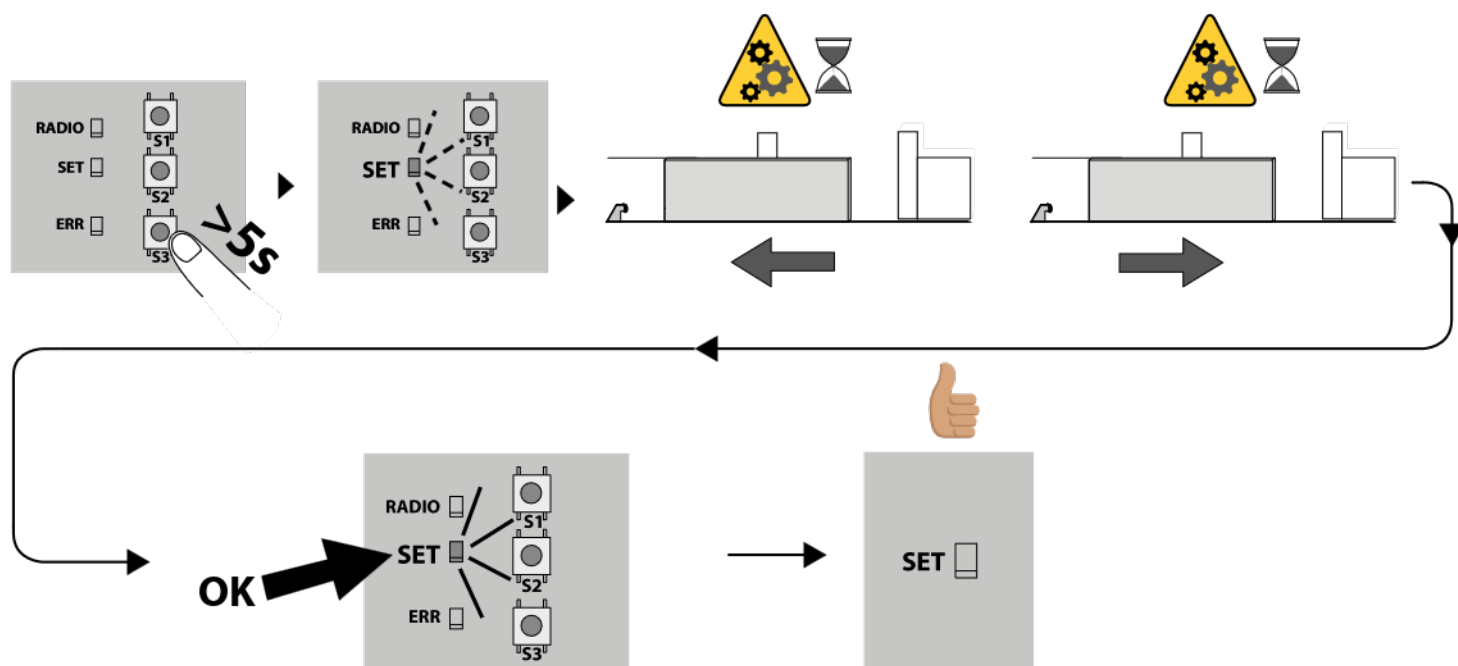
(F1) AUTOSET



APERTURA VERSO SINISTRA
OPENING TO THE LEFT
OUVERTURE VERS LA GAUCHE
ÖFFNUNG NACH LINKS
APERTURA HACIA LA IZQUIERDA
OPENING NAAR LINKS



F2 AUTOSET

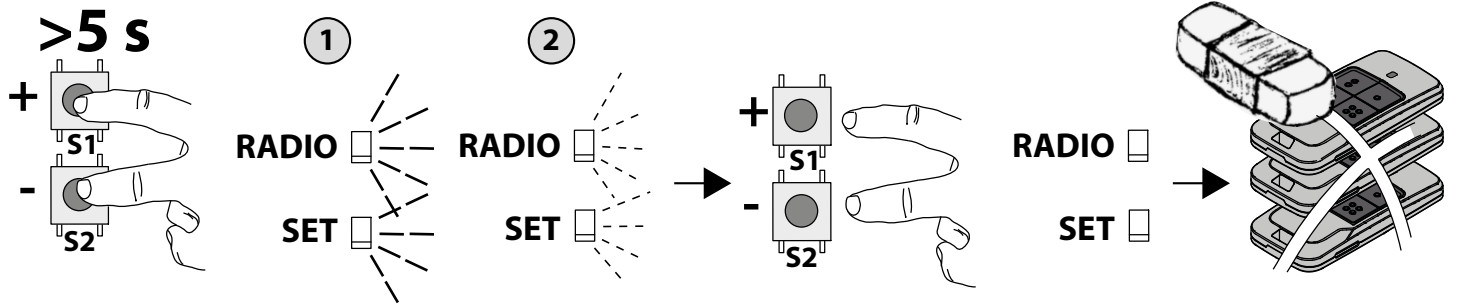




12 - HAMAL BT A

CANCELLAZIONE TRASMETTITORI - TRANSMITTERS CANCELLATION ANNULATION DES ÉMETTEURS - LÖSCHEN DER SENDER ELIMINACIÓN TRANSMISORES - WISSEN ZENDERS

H



LEGENDA - KEY - LÉGENDE - LEGENDE - LEYENDA - LEGENDA			
Fisso Steadily lit Fixe Ununterbrochen an Fijo Continuo		Lampeggio continuo Continuous flashing Clignotement continu Kontinuierliches Blinken Parpadeo continuo Continuo knipperen	
		Lampeggio intermittente Intermittent flashing Clignotement intermittent intermittierendes Blinken Parpadeo intermitente Met intervallen knipperen	

ENGLISH

1) GENERALITY

The control panel is supplied by the Manufacturer with standard factory settings. Any change must be set using the TRIMMER and DIP SWITCH configuration. Its main features are:

- Control of 1 24V BT motors
- Electronic torque control with obstacle detection
- Separate inputs for safety devices
- Radio receiver with built-in rolling code.

The board has a removable terminal strip to facilitate maintenance or replacement operations. It comes with a series of prewired jumpers to make the installer's job on site easier.

The jumpers relate to the terminals: 70-71, 70-72, 70-73.

If the aforementioned terminals are being used, remove the relevant jumpers.

TESTING

The panel controls (checks) the start relays and safety devices (photocells) before performing each opening and closing cycle. If there is a malfunction, make sure that the connected devices are operating correctly and check the wiring.

2) TUBE PRE-ARRANGEMENT Fig. A

Install the electrical system referring to the standards in force for electrical systems CEI 64-8, IEC 364, harmonization document HD 384 and other national standards.

3) TERMINAL BOARD WIRING Fig. B

WARNINGS - When performing wiring and installation, refer to the standards in force and, whatever the case, apply good practice principles.

Wires carrying different voltages must be kept physically separate from each other, or they must be suitably insulated with at least 1 mm of additional insulation. Wires must be secured with additional fastening near the terminals, using devices such as cable clamps.

All connecting cables must be kept at a suitable distance from the dissipater.

WARNING! For connection to the mains power supply, use a multi-core cable with a minimum cross-section of 3x1.5mm² and of the type indicated by the legislation in force.

The cable must be type H05RN-F at least.

4) TECHNICAL DATA

		DEIMOS BT B 400	DEIMOS BT B 600	ARES BT B 1000	ARES BT B 1500
Power supply		220-230V 50/60 Hz			
Stand-by consumption		0,43W			
Power		80 W	100 W	130 W	160 W
Radio frequency		433.92 MHz			
Operating temperature		-20 / +55°C			
Thermal protection		Software			
Auxiliaries maximum power draw	Accesso- ries power supply	24V --- (≤ 0.25 A)			
	AUX1	24V --- (≤ 0.3A)			
Max. no. of remote controls that can be saved		128			

Usable transmitter versions:

All ROLLING CODE transmitters compatible with



5) CONNECTION OF SAFETY DEVICES Fig. E1-E2

6) AUTOSET ADJUSTMENT Fig. F1-F2

Used to automatically set the motor torque.

When the power supply is shut off and then restored, the automation will carry out the manoeuvre at a low speed until reaching the limit-switch.

WARNING! The autosest operation must be carried out only after checking the exact movement of the door (opening/closing) and the positioning of the limit-switches. An autosest cycle must be implemented whenever the position of the end stops, the motor force (T2) or the slow-down distance (T3) are changed.

WARNING! While the autosest function is running, the obstacle detection function is not active. Consequently, the installer must monitor movement of the automated device and keep people and property out of range of the automated device.

WARNING: the torque values set by the autosest function refer to the motor force set during the autosest cycle. If motor force is edited, an autosest opening and closing cycle will need to be performed again.

WARNING!! Check that the impact force value measured at the foreseen points is lower than that indicated in the EN 12453 standard.

Incorrect sensitivity setting can cause injury and damage people, animals or property.

7) SAVING TRANSMITTERS. Fig. G

8) DELETING TRANSMITTERS Fig. H

	Terminal	Definition	Description
Motor	10	MOT 1 +	Connection motor 1.
	11	MOT 1 -	
Aux	20	AUX 1 24V ---	Flashing 24V LED output. Contact stays closed while leaf is in motion
	21		
Power supply Accessories	50	24V-	Accessories power supply output.
	51	24V+	
	52	24 Vsafe+	Power supply output for checked safety devices (photocell transmitter and safety edge transmitter). Output only active during the operation cycle.
Commands	60	COM IC	Common inputs IC1, IC2
	61	IC1	Configurable control input 1 (N.O.) - Default START START/CLOSE Refer to table I/O Configuration DIP switch 1
	62	IC2	Configurable control input 2 (N.O.) - Default PED OPEN/PED Refer to table I/O Configuration DIP switch 2
Safety devices	70	COM	Common inputs STOP, SAFE1, SAFE2
	71	STOP	The command stops the movement. (N.C.) If not used leave the jumper inserted.
	72	SAFE 1	Configurable safety input 1 (N.C.) - Default PHOT PHOT / PHOT TEST / PHOT OP TEST / PHOT CL TEST / BAR / BAR OP TEST / BAR CL TEST / BAR 8K2 Refer to table I/O Configuration DIP switch 3, DIP switch 4 and DIP switch 5
	73	SAFE 2	Configurable safety input 2 (N.C.) - Default PHOT PHOT / PHOT TEST / PHOT OP TEST / PHOT CL TEST / BAR / BAR OP TEST / BAR CL TEST / BAR 8K2 Refer to table I/O Configuration DIP switch 6, DIP switch 7 and DIP switch 8
Antenna	Y	ANTENNA	Antenna input.
	#	SHIELD	Use an antenna tuned to 433MHz. Use RG58 coaxial cable to connect the Antenna-Receiver. Metal bodies close to the antenna can interfere with radio reception. If the transmitter range is limited, move the antenna to a more suitable position.

INSTALLATION MANUAL

KEYS

KEYS	Description
S1	Add Start Key pairs the desired key with the Start command
S2	Add second radio channel pairs the desired key with the Ped command
S2 >5s	Confirms the changes made to parameter settings and operating logics.
S1+S2 >10s	Delete List  WARNING! Deletes all saved transmitters from the receiver's memory.
S3	Pressed BRIEFLY, it gives the START command. When HELD DOWN (>5 sec.), it activates the AUTOSET function.
S1+S2	During LOW ENERGY exits from LOW-ENERGY

LED INDICATORS:

POWER	Light steady on: board powered in NON LOW ENERGY function Triple flash: board powered in LOW-ENERGY function Flashing alternating with ADV LED: logic and parameters programming via U-Link
ADV	Flashing alternating with POWER LED: logic and parameters programming via U-Link
IC1	Lit: IC1 input activated
STOP	Off: STOP input activated
SAFE 1	Off: SAFE 1 input activated
SWC	ON: the motor closure limit-switch is free OFF: Activation of the closure limit-switch input
SWO	ON: the motor opening limit-switch is free OFF: Activation of the opening limit-switch input
ERR	OFF: no error LIT: see error diagnostics table
RADIO (GREEN)	Off: remote programming not active Only Radio LED flashing: Remote programming active, waiting for hidden key. Flashing in sync with Set LED: Radio controls deletion in progress Lit: remote programming active, waiting for the key. Lit 1s: radio receiver channel activated
SET	Lit: Set key pressed / Autoset completed successfully Triple flash: Autoset in progress Fast Flashing: Autoset Failed Synchronous flashing with Radio LED: radio controls deletion in progress Lit 1s: start/stop for S3 key activation Lit 10s: autoset successfully completed

9) ADJUSTMENT PROCEDURE

- Before turning the unit on, check electrical connections.
- Set the following parameters: Automatic Closing Time, motor force, slow-down distance.
- Set the logics.
- Run the autoset procedure.



DANGER! Incorrect installation can result in damage to property and injury to people and animals.

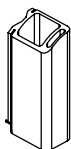


WARNING!! Check that the impact force value measured at the foreseen points is lower than that indicated in the EN 12453 standard.



To ensure personal safety and the safety of property, use the passive rubber edge on the main closing edge.

Mod. BFT CSP



Warning!! While the autoset function is in operation, the obstacle detection function is not active. The installer must monitor movement of the automated device and keep people and property out of range of the automated device.

For best results, it is advisable to run the autoset function with the motor idle (i.e. not overheated by a considerable number of consecutive operations).

10) INSTALLATION TEST SEQUENCE

1. Run the AUTOSET cycle (*)
 2. Check the impact forces again. If they observe the limits (**), go to point 9 of the sequence, otherwise
 3. Adjust sensitivity (force) parameter if necessary: see parameter table.
 4. Check the impact forces again. If they observe the limits (**), go to point 9 of the sequence, otherwise
 5. Apply a passive safety edge
 6. Check the impact forces again. If they observe the limits (**), go to point 9 of the sequence, otherwise
 7. Apply pressure-sensitive or electro-sensitive protective devices (such as a safety edge) (**)
 8. Check the impact forces again. If they observe the limits (**), go to point 9 of the sequence, otherwise
 9. Make sure all devices designed to detect obstacles within the operating range of the system are working properly
- (*) Before running the autoset function, make sure you have performed all the assembly and make-safe operations correctly, as set out in the installation warnings in the drive manual.
- (**) Based on the risk analysis, you may find it necessary to apply sensitive protective devices anyway

WARNING! Incorrect settings can result in damage to property and injury to people and animals.

ERR LED:

		ERR LED		
		Lit 	Slow flashing 	Fast flashing 
SET LED	OFF SET 	Reversal due to obstacle, Amperostop - Check for obstacles in the path	Photocell test, Costa or Costa 8k2 failed - Check photocell connection and/or logic settings	Thermal - Wait for the automation to cool
	Lit SET 	Internal system supervision control error - Try turning the board off and on again. If the problem persists, contact technical assistance.		
	Slow flashing SET 	Board hardware test error - Check connections to the motor - Hardware problems to the card (contact technical assistance)		Parameters and/or Operating Logic modified - If the "Slow-down distance" is modified, run a new Autoset cycle to confirm the new setting. - If other parameters and/or operating logic are modified, press and hold down S2 for 5s to confirm. NOTE: In any case, the Autoset function confirms all changes made to the board

TABLE PARAMETERS

TRIMMER	Parameter	 min.	 max.	Description
T1	Automatic closing time [s]	0	120	Waiting time before automatic closing. NOTE: Set to 0 if not used.
T2	Leaf force [%]	10	100	Force exerted by the leaf. This is the percentage of force delivered, beyond the force stored during the autosect cycle (and subsequently updated), before an obstacle alarm is generated. ⚠ WARNING: Directly affects the impact force. Make sure that current safety regulations are met (*) with the set value. Install anti-crush safety devices where necessary. Note: When this parameter is edited, a new Autosect cycle must be run to confirm it.
T3	Slow-down distance [%]	5 (***)	50	Set slow-down speed as a percentage of total travel. This distance is travelled at low speed. Note: When this parameter is modified, a new Autosect cycle must be run to confirm it.

(*) In the European Union, apply standard EN 12453 for force limitations

(***) If the calculated value is less than 30 cm, it is set to 30 cm.

TABLE ADV

DIP	Logic	Default	Tick the setting made	Description
1	Low Consumption Disablement	OFF	OFF	With the gate shut, the power supply of the accessories is disabled, allowing the stand-by consumption to be decreased. ⚠ In the Low-Energy state, all LED notifications are suspended; it is possible to exit the Low-Energy state by pressing buttons S1+S2 simultaneously.
			ON	The power supply of the accessories always remains active even with the gate closed; with this configuration, the stand-by power draw is greater.
2	Not used			Not used
3	U-LINK activation	OFF	OFF	U-LINK is disabled, the logic settings and parameters of the board are made via the DIP switch and TRIMMER interface.
			ON	U-LINK active, the logic settings and parameters of the board are made via the U-LINK serial. The Trimmer and DIP switch interface is disabled, the position of the Trimmer and DIP switches does not affect the operation of the board. Operation with virtual programming is signalled by alternating flashing of the ADV and POWER LEDs.
4	U-LINK version	OFF	OFF	U-LINK 2: if U-LINK is active dip 3=ON
			ON	U-LINK 1: if U-LINK is active dip 3=ON

INSTALLATION MANUAL

TABLE I/O CONFIG

DIP	LOGIC	DEFAULT	DESCRIPTION			
1	Input IC1 configuration	OFF	ON = Input IC1 configured as CLOSE			
			OFF = Input IC1 configured as START			
2	Input IC2 configuration	OFF	ON = Input IC2 configured as OPEN			
			OFF = Input IC2 configured as PED			
3	Input SAFE1 configuration	OFF				
			DIP-3	DIP-4	DIP-5	
			OFF	OFF	OFF	Input SAFE1 configured as PHOT, photocell non tested.* Enables connection of devices not equipped with additional test contacts. In case of obscuration, the photocells are active both in opening and in closing. An obscuration of the photocell during closing, reverses the motion only after the photocell has been disengaged. If not used leave the jumper inserted.
ON		OFF	OFF	Input SAFE1 configured as PHOT TEST, verified photocell. * Switches photocell testing on at start of operation. In case of obscuration, the photocells are active both in opening and in closing. An obscuration of the photocell during closing, reverses the motion only after the photocell has been disengaged.		
OFF		ON	OFF	Input SAFE1 configured as PHOT OP TEST, verified photocell active only on opening. * Switches photocell testing on at start of operation. If the beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.		
ON		ON	OFF	Input SAFE1 configured as PHOT CL TEST, verified photocell active only on closure. * Switches photocell testing on at start of operation. In case of covering, the photocell operation during opening is excluded. During closing, it immediately reverses.		
OFF		OFF	ON	Input SAFE1 configured as BAR, safety edge. * Enables connection of devices not equipped with additional test contacts. The command reverses movement for 2 sec. If not used, leave jumper inserted		
ON		OFF	ON	Input SAFE1 configured as BAR OP TEST. * Activates safety edge test when starting operation. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.		
5		OFF	OFF	ON	ON	Input SAFE1 configured as BAR CL TEST. * Activates safety edge test when starting operation. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.
			ON	ON	ON	Input SAFE1 configured as BAR 8K2, SAFETY EDGE 8K2.* The command reverses movement for 2 sec.
6	Input SAFE2 configuration	OFF				
			DIP-6	DIP-7	DIP-8	
			OFF	OFF	OFF	Input SAFE2 configured as PHOT, photocell non tested.* Enables connection of devices not equipped with additional test contacts. In case of obscuration, the photocells are active both in opening and in closing. An obscuration of the photocell during closing, reverses the motion only after the photocell has been disengaged. If not used leave the jumper inserted.
ON		OFF	OFF	Input SAFE2 configured as PHOT TEST, verified photocell. * Switches photocell testing on at start of operation. In case of obscuration, the photocells are active both in opening and in closing. An obscuration of the photocell during closing, reverses the motion only after the photocell has been disengaged.		
OFF		ON	OFF	Input SAFE2 configured as PHOT OP TEST, verified photocell active only on opening. * Switches photocell testing on at start of operation. If the beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.		
ON		ON	OFF	Input SAFE2 configured as PHOT CL TEST, verified photocell active only on closure. * Switches photocell testing on at start of operation. In case of covering, the photocell operation during opening is excluded. During closing, it immediately reverses.		
OFF		OFF	ON	Input SAFE2 configured as BAR, safety edge. * Enables connection of devices not equipped with additional test contacts. The command reverses movement for 2 sec. If not used, leave jumper inserted		
ON		OFF	ON	Input SAFE2 configured as BAR OP TEST. * Activates safety edge test when starting operation. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.		
8		OFF	OFF	ON	ON	Input SAFE2 configured as BAR CL TEST. * Activates safety edge test when starting operation. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.
			ON	ON	ON	Input SAFE2 configured as BAR 8K2, SAFETY EDGE 8K2.* The command reverses movement for 2 sec.

(*) If "D" type devices are installed (as defined by EN12453), connected in an unverified mode, mandatory maintenance must be carried out at least every six months.

TABLE LOGICS

DIP	Logic	Default	Tick the setting made	Description
1	Quick Save	OFF	OFF	Disables the saving of remote controls via radio. The remote controls are stored only using the dedicated Radio menu, or automatically with replay transmitters.
			ON	Enables the saving of remote controls via radio: 1- Press the hidden button and the normal button in sequence (T1-T2-T3-T4) of a remote control already saved in standard mode through the radio menu. 2- Within 10 seconds, press the hidden button and the normal button (T1-T2-T3-T4) of a remote control to be saved. The receiver quits the programming mode after 10 seconds; within this time further new remote controls can be inserted. This mode doesn't require access to the control panel.
2	Rapid closing	OFF	OFF	Logic not active
			ON	Closes 3 seconds after photocells are disengaged before waiting for the set TCA to elapse
3	Pre-alarm	OFF	OFF	The flashing starts at the same time that the motor(s) start(s) up
			ON	Flashing starts approx. 3 seconds before the motor(s) start(s) up
4	3 step logic	OFF	OFF	Enables 4-step logic.
			ON	Enables 3-step logic; during closing, start reverses movement.
5	Opening impulse block	OFF	OFF	The start impulse has an effect during opening.
			ON	The start impulse has no effect during opening.
6	Installation alternatives	OFF	OFF	Opening to the right. Fig. F1
			ON	Opening to the left. Fig. F2
7	SWC pressure	OFF	OFF	The movement is stopped solely by the intervention of the closure limit switch; in this case, it is necessary to precisely regulate the operation of the closure limit switch.
			ON	To be used with mechanical closure stop. This function activates pressure of the leaf on the mechanical stop, without this being considered an obstacle by the amperostop sensor. The leaf therefore continues its stroke for a few seconds after interception of the closure limit switch or up to the mechanical stop. In this manner, by slightly advancing the intervention of the closure limit switch, the leaf will come into perfect contact with the end stop.
8	Not used			Not used