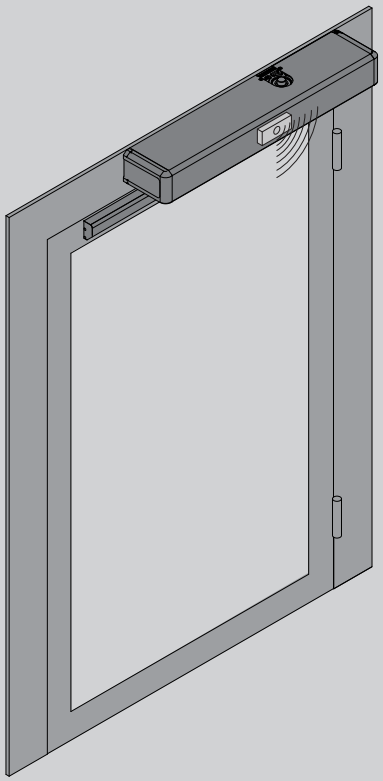
8 027908 444509 >

D812034 00100_03 04-12-14

AUTOMAZIONI PORTE
AUTOMATION DOORS
AUTOMATIONS POUR PORTES
AUTOMATICTUREN
AUTOMATIZACIONES PARA PUERTAS
AUTOMATISERINGSSYSTEMEN DEUREN



VISTA SW SXL

ISTRUZIONI D'USO E DI INSTALLAZIONE
INSTALLATION AND USER'S MANUAL
INSTRUCTIONS D'UTILISATION ET D'INSTALLATION
INSTALLATIONS-UND GEBRAUCHSANLEITUNG
INSTRUCCIONES DE USO Y DE INSTALACION
GEBRUIKS- EN INSTALLATIEAANWIJZINGEN

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AZIENDA CON SISTEMA DI GESTIONE INTEGRATO CERTIFICATO DA DNV = UNI EN ISO 9001:2008 = UNI EN ISO 14001:2004

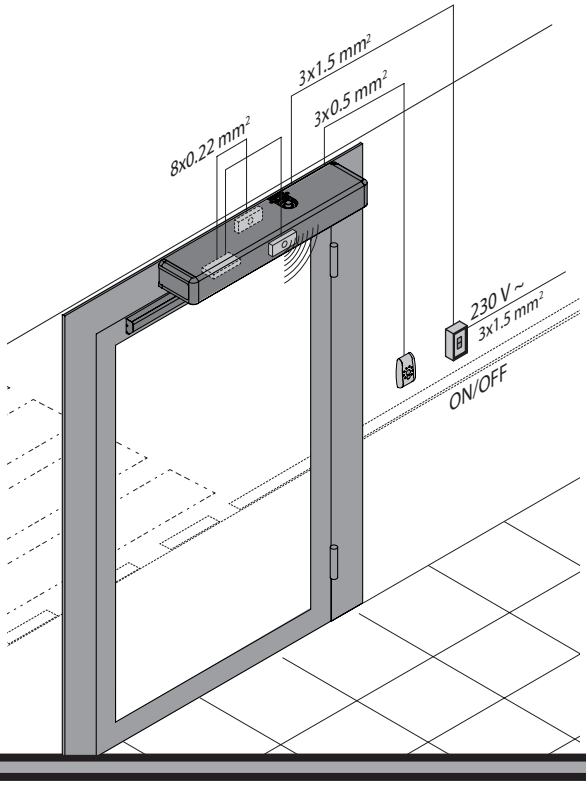
Attenzione! Leggere attentamente le "Avvertenze" all'interno! **Caution!** Read "Warnings" inside carefully! **Attention!** Veuillez lire attentivement les Avertissements qui se trouvent à l'intérieur! **Achtung!** Bitte lesen Sie aufmerksam die „Hinweise" im Inneren! **¡Atención¡** Leer atentamente las "Advertencias" en el interior! **Let op!** Lees de "Waarschuwingen" aan de binnenkant zorgvuldig!

INSTALLAZIONE VELOCE-QUICK INSTALLATION-INSTALLATION RAPIDSCHNELLINSTALLATION-INSTALACION RAPIDA - SNELLE INSTALLATIE

D812034 00100_03

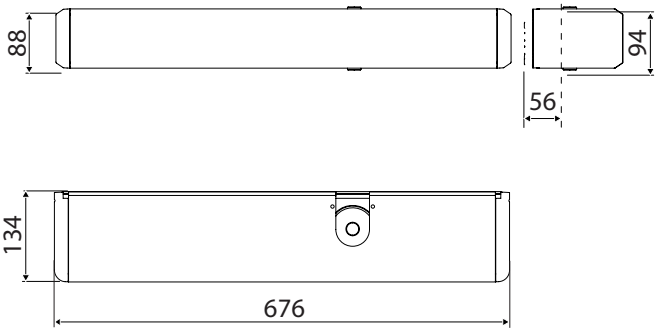
A

PREDISPOSIZIONE DELL'IMPIANTO ELETTRICO/ ELECTRICAL SYSTEM SETUP
PRÉDISPOSITION DE L'INSTALLATION ÉLECTRIQUE / VORBEREITUNG DER ELEKTISCHEN ANLAGE
PREPARACIÓN DE LA INSTALACIÓN ELÉCTRICA / VOORBEREIDING VAN DE ELEKTRISCHE INSTALLATIE

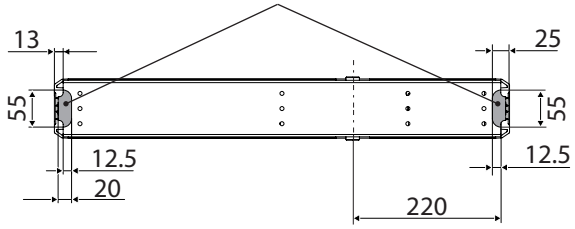


B

VISTA SW SXL - VISTA SW MXL

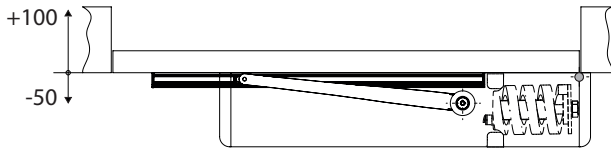


Passaggio cavi / Cable routing
Passage des câbles / Kageldurchführung
Paso de los cables / Kabeldoorgang

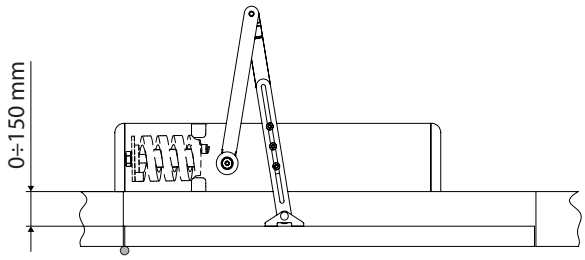


C

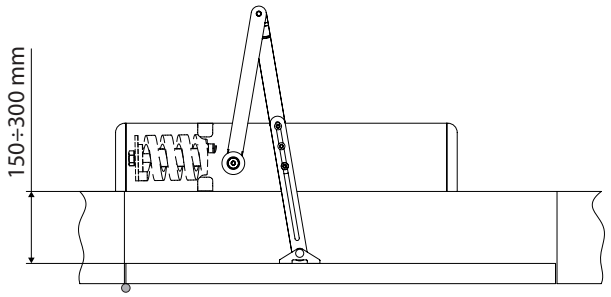
BRACCIO A SLITTA / SLIDE ARM / BRAS À GLISSIÈRE
SCHLITTENARM/ BRAZO DE CORREDERA/ SCHUIFARM



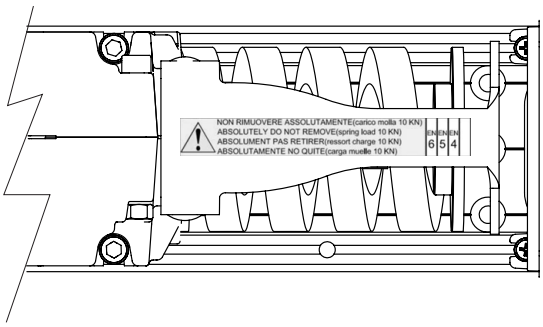
BRACCIO ARTICOLATO / DOUBLE LEVER ARM/ BRAS ARTICULÉ
GELENKARM/ BRAZO ARTICULADO/ SCHARNIERARM

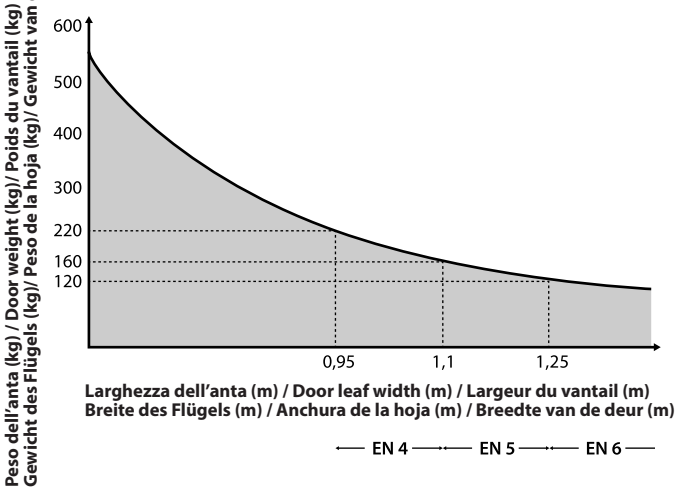


BRACCIO ARTICOLATO LUNGO / LONG DOUBLE LEVER ARM /BRAS ARTICULÉ
LANGER GELENKARMLUNGO LONG/BRAZO ARTICULADO LARGO/ANGE SCHARNIERARM



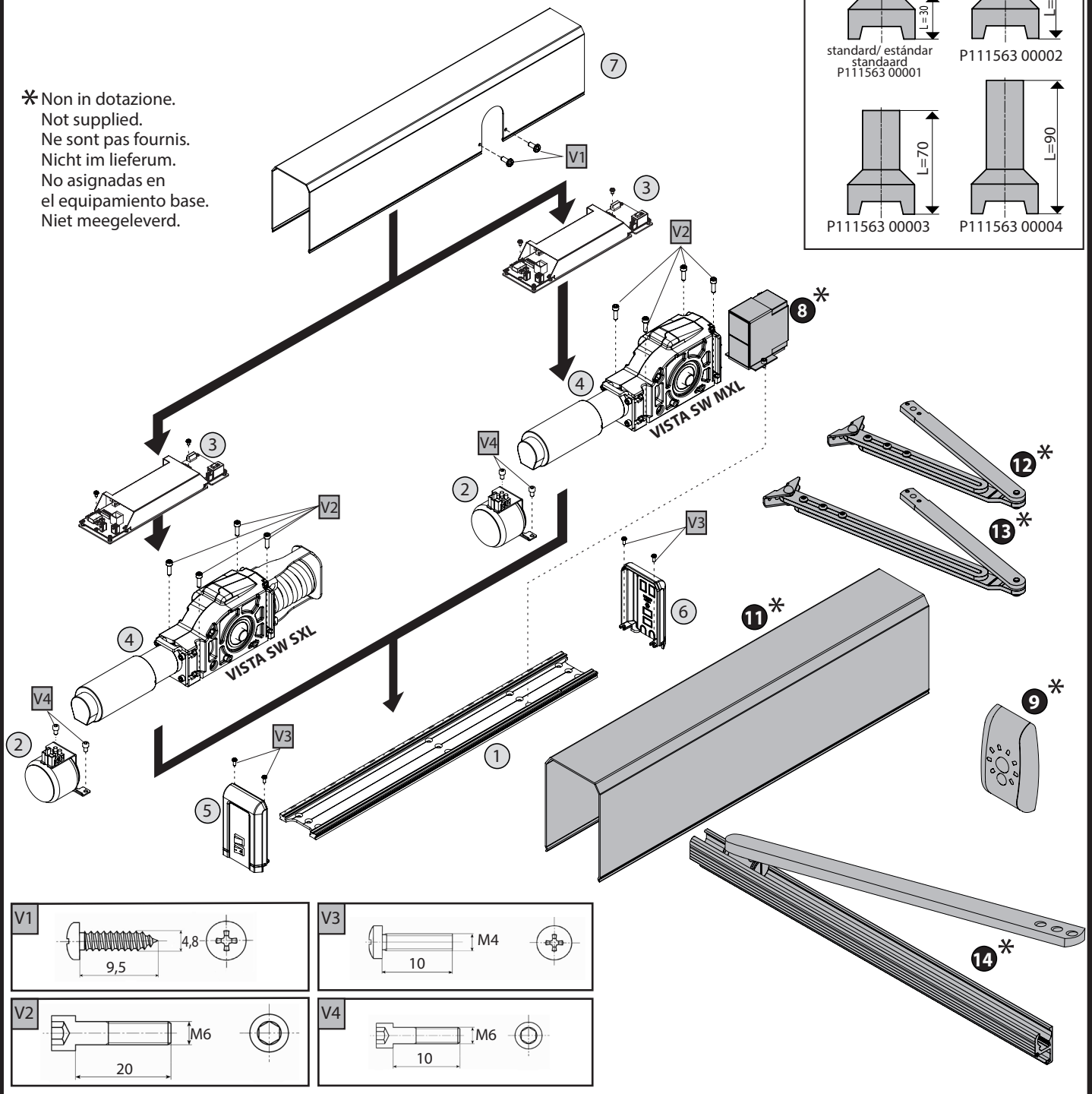
C1



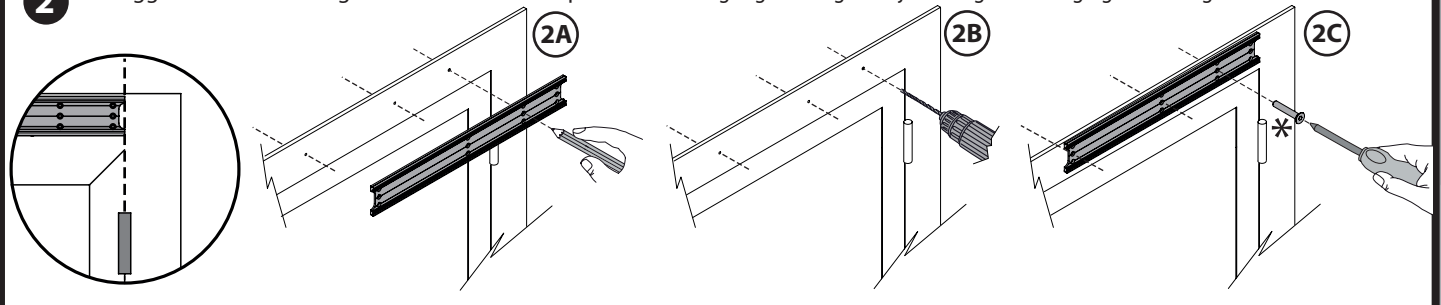


1 Smontaggio Automazione/ Dismantling the Automatic Door Operator / Démontage Automatisation Ausbau der Automatisierung/ Desmontaje Automatización / Demontage Automatiseringssysteem

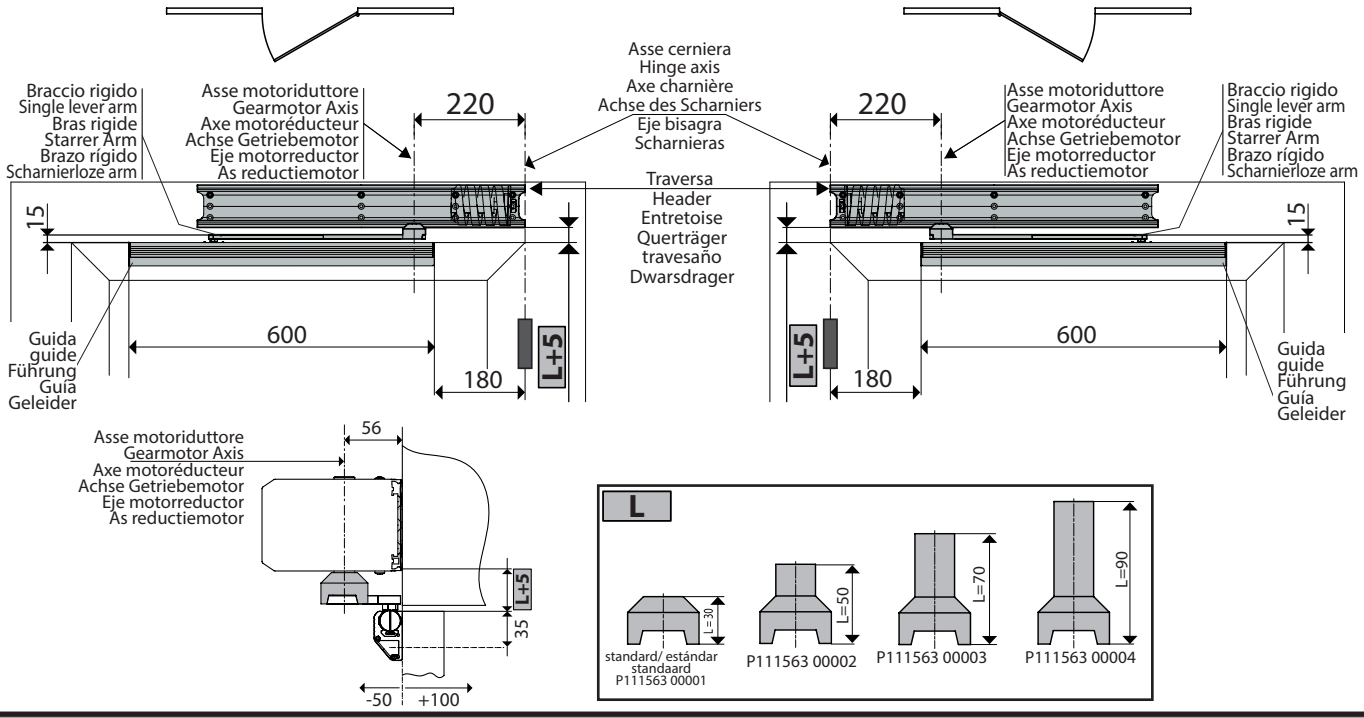
✻ Non in dotazione.
Not supplied.
Ne sont pas fournis.
Nicht im lieferum.
No asignadas en
el equipamiento base.
Niet meegeleverd.



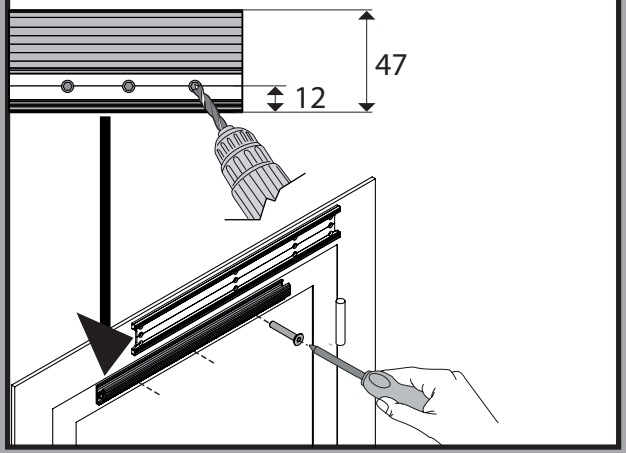
2 Fissaggio Trave / Fastening the header / Fixation poutres/ Befestigung des Trägers/ Fijación viga/ Bevestiging dwarsdrager



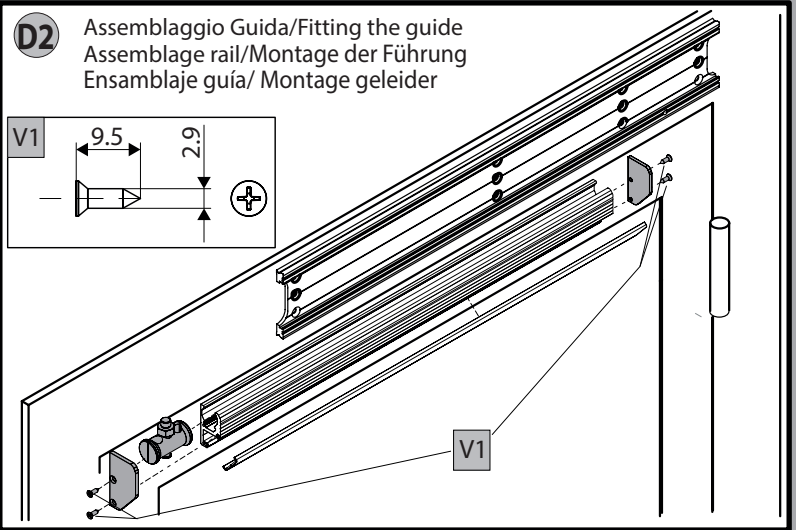
D Installazione Braccio Rigido / Installing the Single Lever Arm / Installation du Bras Rigide / Installation des starren Arms Instalación Brazo Rígido/ Installatie Scharnierloze arm



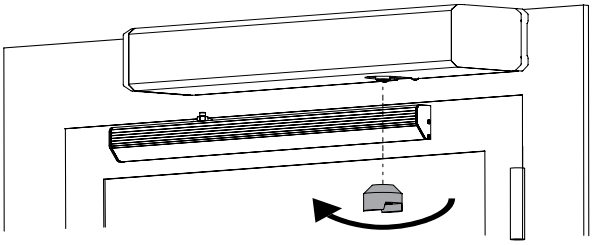
D1 Braccio NON preforato / Arm NOT pre-drilled / Bras PAS pré-percé NICHT vorgebohrter Arm / Brazo NO perforado / NIET geperforeerde arm



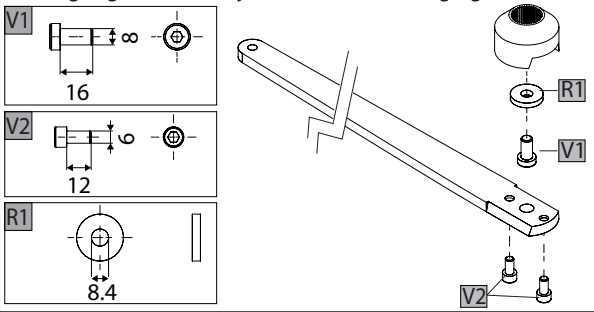
D2 Assemblaggio Guida/Fitting the guide Assemblage rail/Montage der Führung Ensamblaje guía/ Montage geleider



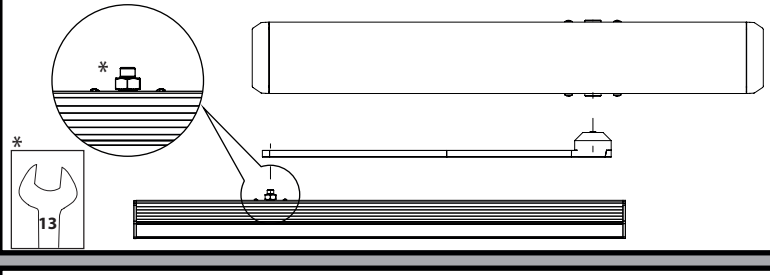
D3 Precarico molla/Spring preload/ Préchargement ressort/ Vorspannung der Feder/ Precarga muelle / Voorbelasting van de veer



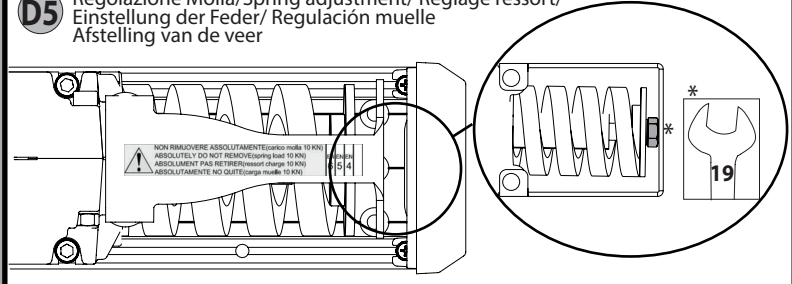
Fissaggio braccio/ Fastening the arm / fixation bras/ Befestigung des Arms/ fijación brazo/ bevestiging van de arm



D4 Posizionamento braccio /Arm positioning/ Positionnement bras/ Positionierung des Arms/ Posicionamiento brazo/ Plaatsen van de arm

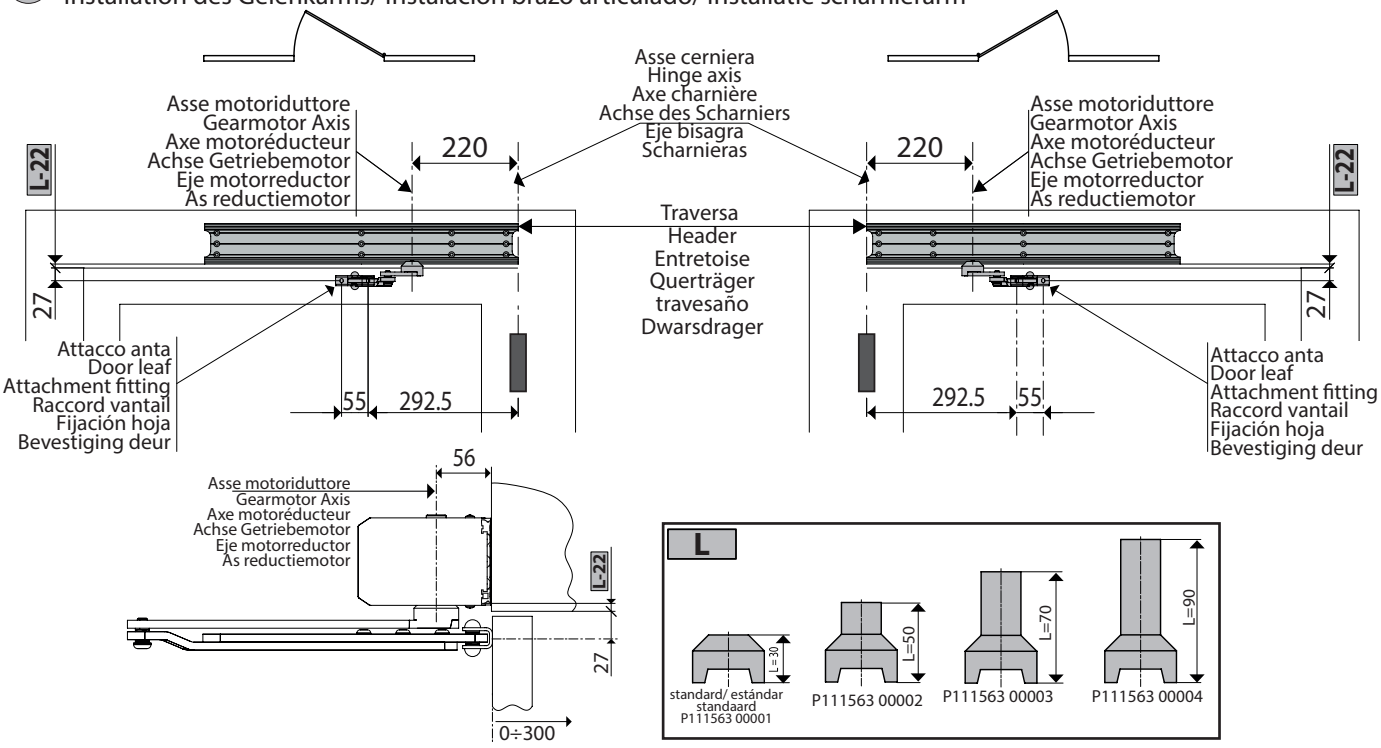


D5 Regolazione Molla/Spring adjustment/ Réglage ressort/ Einstellung der Feder/ Regulación muelle Afstelling van de veer

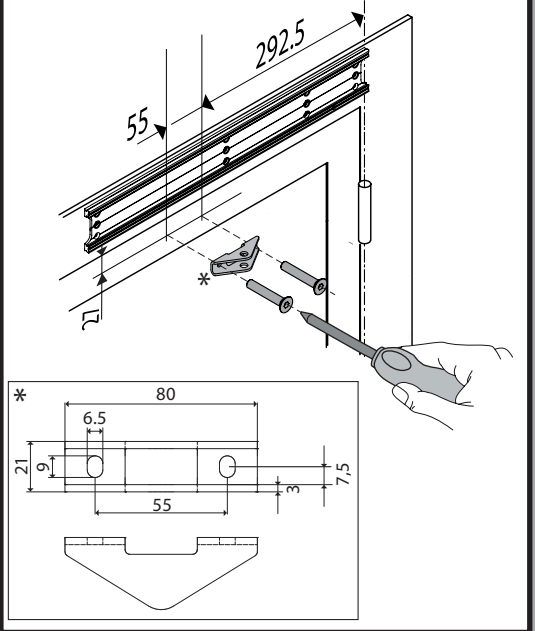


Vedere/See / Cf. /Siehe/ Véase /Zie **Fig. D**

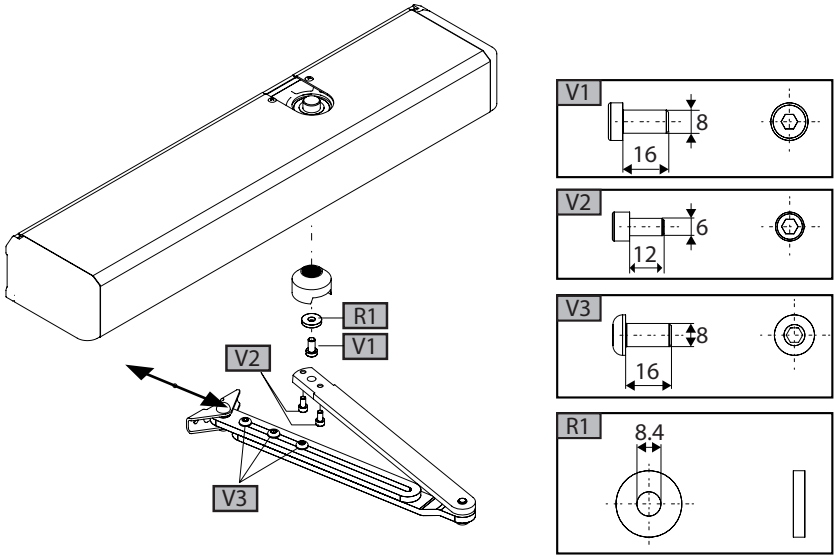
E Installazione Braccio Articolato /Installing the double lever arm/ Installation bras articulé Installation des Gelenkarms/ Instalación brazo articulado/ Installatie scharnierarm



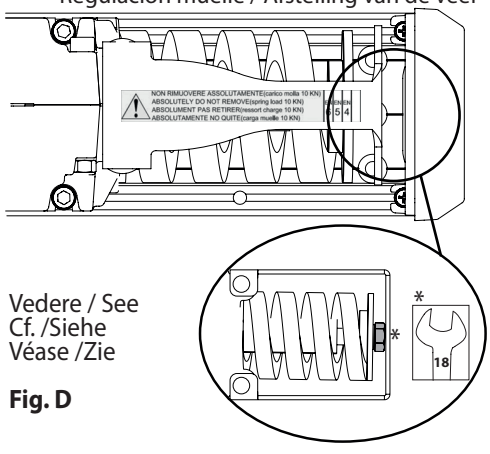
E1 Fissaggio braccio all'anta / Fastening the arm to the door leaf Fixation bras sur vantail / Befestigung des Arms am Flügel Fijación brazo a la hoja / Bevestiging arm aan de deur



E2 Fissaggio braccio all'automazione /Fastening the arm to the automatic door operator/ Fixation bras sur l'automatisation/ Befestigung des Arms an der Automatisierung/ Fijación brazo a la automatización/ Bevestiging arm aan het automatiseringssysteem



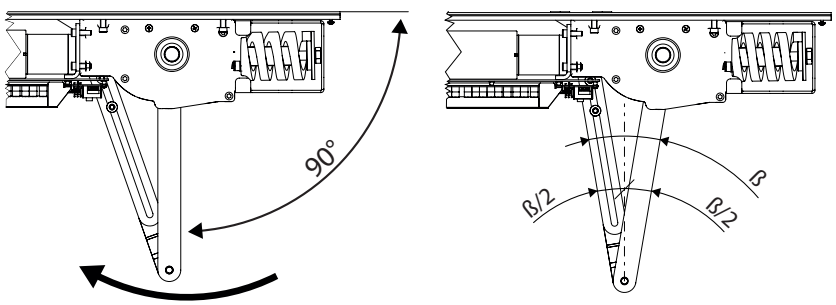
E3 Regolazione Molla/Spring adjustment Réglage ressort/ Einstellung der Feder Regulación muelle / Afstelling van de veer



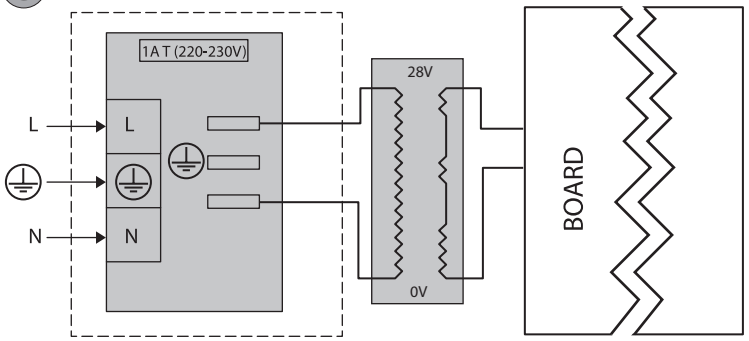
Vedere / See
Cf. /Siehe
Véase /Zie

Fig. D

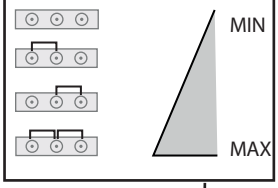
E4 Regolazione braccio /Arm adjustment / Réglage bras Einstellung des Arms / Regulación brazo / Afstelling van de arm



G



Selezione livello frenatura
Braking level selection
Sélection niveau de freinage
Auswahl des Bremspegels
Selección nivel frenado
Keuze remniveau



I

1.Display e pulsanti
2. Dip Switchs
3. Connettore uscite ausiliarie
4. Connettori comandi/ingressi
5. Alimentazione Sensori/Accessori
6. Connettore seletore multilogiche
7. Connettore elettroserratura
8. Connettore Selezione livello freno
9. Connettore trasformator
10. Connettore interruto ON-OFF
11. Connettore interruttore selezioni logiche
12. Connettore encoder
13. Connettore motore
14. Selettore tipologie braccio
15. Connettore batterie

1.Display and pushbuttons
2.Dip switches
3.Auxiliary outputs connector
4.Inputs/commands connectors
5.Sensors/Accessories Power Supply
6.Multilogic selector connector
7.Solenoid lock connector
8.Brake level selection connector
9.Transformer connector
10.ON-OFF switch connector
11.Logic selection switch connector
12.Encoder connector
13.Motor connector
14.Arm type selector
15.Battery connector

1. Afficheur et touches
2. Commutateurs Dip
3. Connecteur sorties auxiliaires
4. Connecteurs commandes/entrées
5. Alimentation Capteurs/Accessoires
6. Connecteur sélecteur multilogiques
7. Connecteur serrure électrique
8. Connecteur Sélection niveau frein
9. Connecteur transformateur
10. Connecteur interrupteur ON-OFF
11. Connecteur interrupteur sélections logiques
12. Connecteur encodeur
13. Connecteur moteur
14. Sélecteur types de bras
15. Connecteur batteries

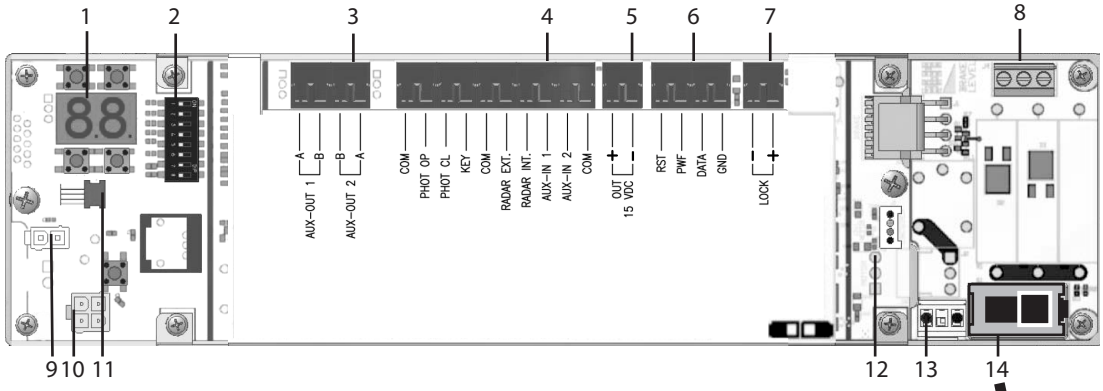
1.Display und Tasten
2.DIP-Switches
3.Steckverbindung Hilfsausgänge
4.Steckverbindungen Befehle/Eingänge
5.Stromversorgung Sensoren/Zubehör
6.Steckverbindung Wahlschalter Multilogiken
7.Steckverbindung Elektroschloss
8.Steckverbindung Auswahl des Bremspegels
9.Steckverbindung Transformator
10.Steckverbindung Schalter ON-OFF
11.Steckverbindung Schalter Auswahl Logiken
12.Steckverbindung Encoder
13.Steckverbindung Motor
14.Steckverbindung Armtyp
15.Steckverbindung Batterien

1.Pantalla y pulsadores
2 Conmutadores DIP
3.Conectores salidas auxiliares
4.Conectores mandos/entradas
5.Alimentación Sensores/Accesorios
6.Conector selector multilógicas
7.Conector cerradura eléctrica
8.Conector Selección nivel freno
9.Conector transformador
10.Conector interruptor ON-OFF
11.Conector interruptor selecciones lógicas
12.Conector encoder
13.Conector motor
14.Selector tipologías brazos
15.Conector baterías

1.Display en knoppen
2.Dip Switches
3.Connector secundaire outputs
4.Connectors commando's/inputs
5.Voeding Sensors/Accessoires
6.Connector keuzeschakelaar multilogica's
7.Connector elektroslot
8.Connector Keuze remniveau
9.Connector transformator
10.Connector ON-OFF schakelaar
11.Connector schakelaar logische selecties
12.Connector encoder
13.Connector motor
14.Keuzeschakelaar armtypes
15.Connector batterijen

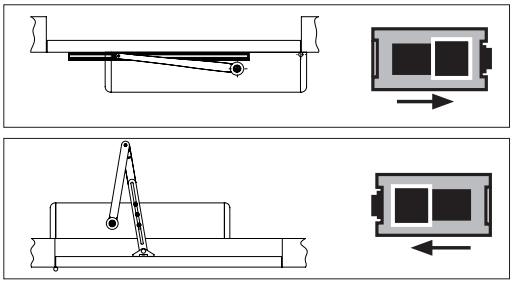
L

Collegamenti VISTA SW SXL/ VISTA SW SXL connections/ Connexions VISTA SW SXL
Anschlüsse VISTA SW SXL/ Conexiones VISTA SW SXL / Aansluitingen VISTA SW SXL



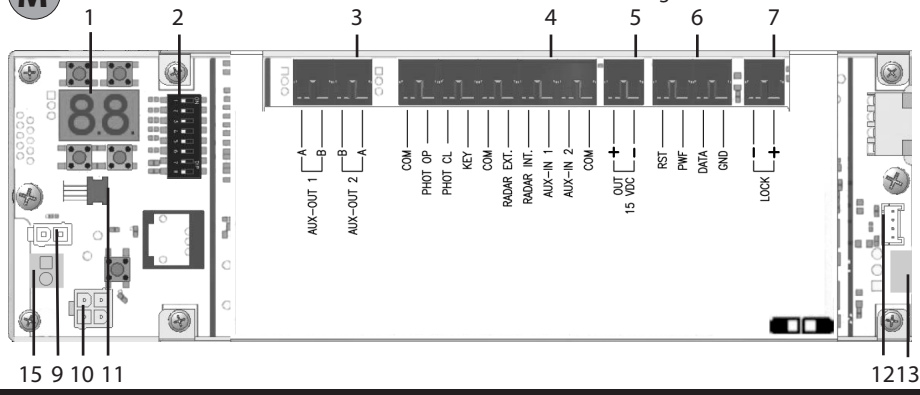
H

Selezione tipologia braccio
Arm type selection
Sélection type de bras
Auswahl des Armtyps
Selección tipología brazo
Keuze armtypes

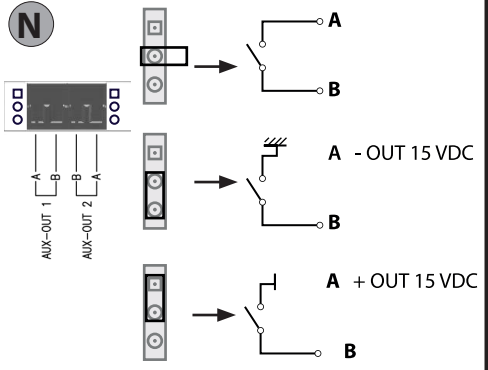


M

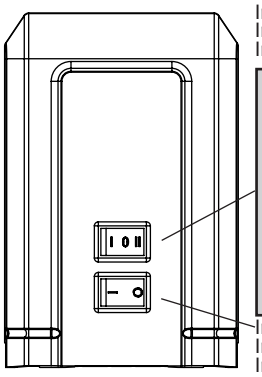
Collegamenti VISTA SW MXL / VISTA SW MXL connections / Connexions VISTA SW MXL
Anschlüsse VISTA SW MXL/ Conexiones VISTA SW MXL/ Aansluitingen VISTA SW MXL



N



O



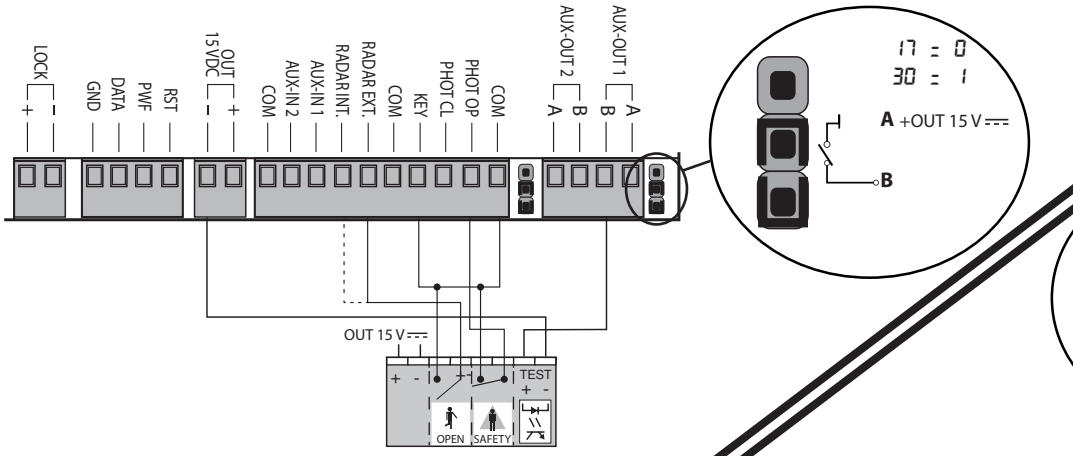
Interruttore selezione logiche / Logic selection switch
Interrupteur sélection logiques / Schalter Auswahl der Logiken
Interruptor selección lógicas / Schakelaar keuze logica's

VISTA SW SXL	VISTA SW MXL
MANUALE / MANUAL MANUEL/ MANUELL MANUAL/ HANDMATIG	STOP CHIUSO/ STOP CLOSED ARRÊT FERMÉ STOPP GESCHLOSSEN STOP CERRADO/ STOP GESLOTEN
DUE RADAR/TWO RADARS DEUX RADARS/ ZWEI RADAR DUE RADAR / TWEE RADARS	DUE RADAR/TWO RADARS DEUX RADARS/ ZWEI RADAR DUE RADAR / TWEE RADARS
STOP APERTO/ STOP OPEN ARRÊT À L'AIR LIBRE STOPP BEI ÖFFNUNG STOP ABIERTO/ STOP OPEN	STOP APERTO/ STOP OPEN ARRÊT À L'AIR LIBRE STOPP BEI ÖFFNUNG STOP ABIERTO/ STOP OPEN

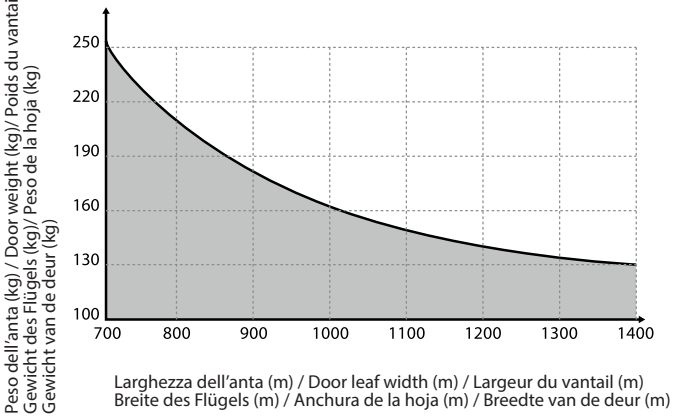
Interruttore ON/OFF // ON/OFF switch
Interrupteur ON/OFF// Schalter ON/OFF
Interruptor ON/OFF // ON/OFF schakelaar

P

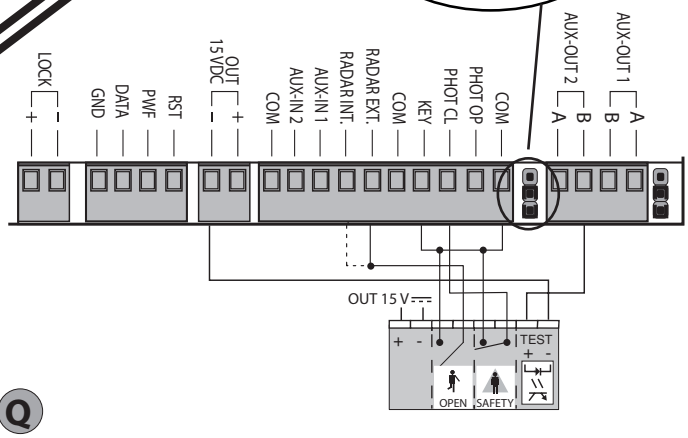
Collegamento sensori rilevamento / sicurezza con verifica in apertura // Connecting detectors/safety sensors with testing during opening
Connexion capteurs détection/sécurité avec vérification à l'ouverture// Verbindung Sensoren Erfassung/Sicherheit mit Überprüfung bei Öffnung
Conexión sensores detección/seguridad con control en fase de apertura // Aansluiting detectie/veiligheid sensors met controle bij openen



R

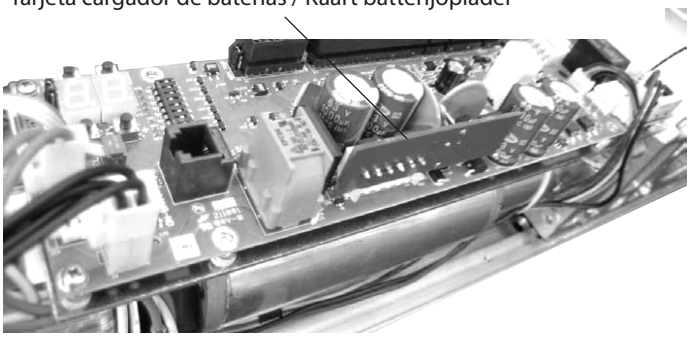


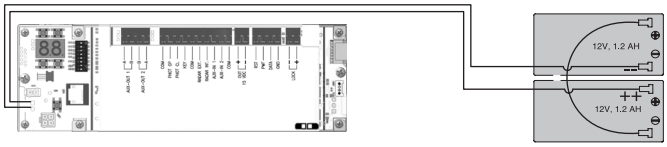
Q



Collegamento sensori rilevamento / sicurezza con verifica in chiusura
Connecting detectors/safety sensors with testing during closing
Connexion capteurs détection/sécurité avec vérification à la fermeture
Verbindung Sensoren Erfassung/Sicherheit mit Überprüfung bei Schließung
Conexión sensores detección/seguridad con control en fase de cierre
Aansluiting detectie/veiligheid sensors met controle bij sluiten

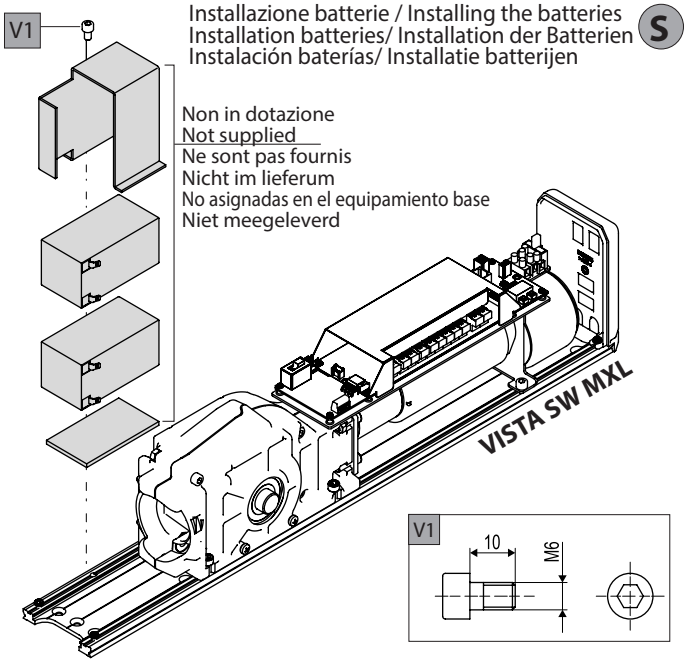
Scheda caricabatteria / Battery charger board
Carte chargeur de batterie / Batterieladekarte
Tarjeta cargador de baterías / Kaart batterijoplader





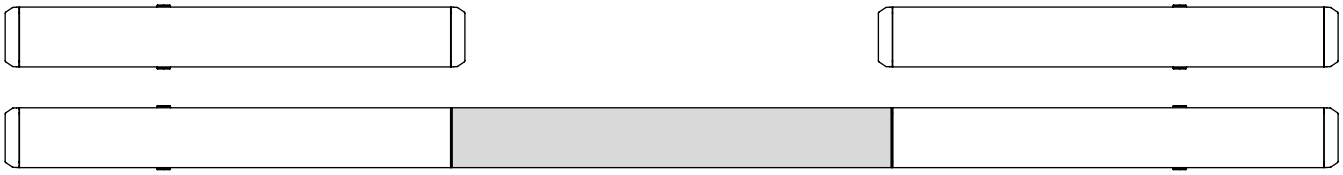
S

Installazione batterie / Installing the batteries
Installation batteries/ Installation der Batterien
Instalación baterías/ Installatie batterijen



Installazione Vista SW Doppio / Installing pair of VISTA SW operators/ Installation VISTA SW double/ Doppelte Installation VISTA SW
Instalación VISTA SW doble/ Installatie dubbele VISTA SW

T



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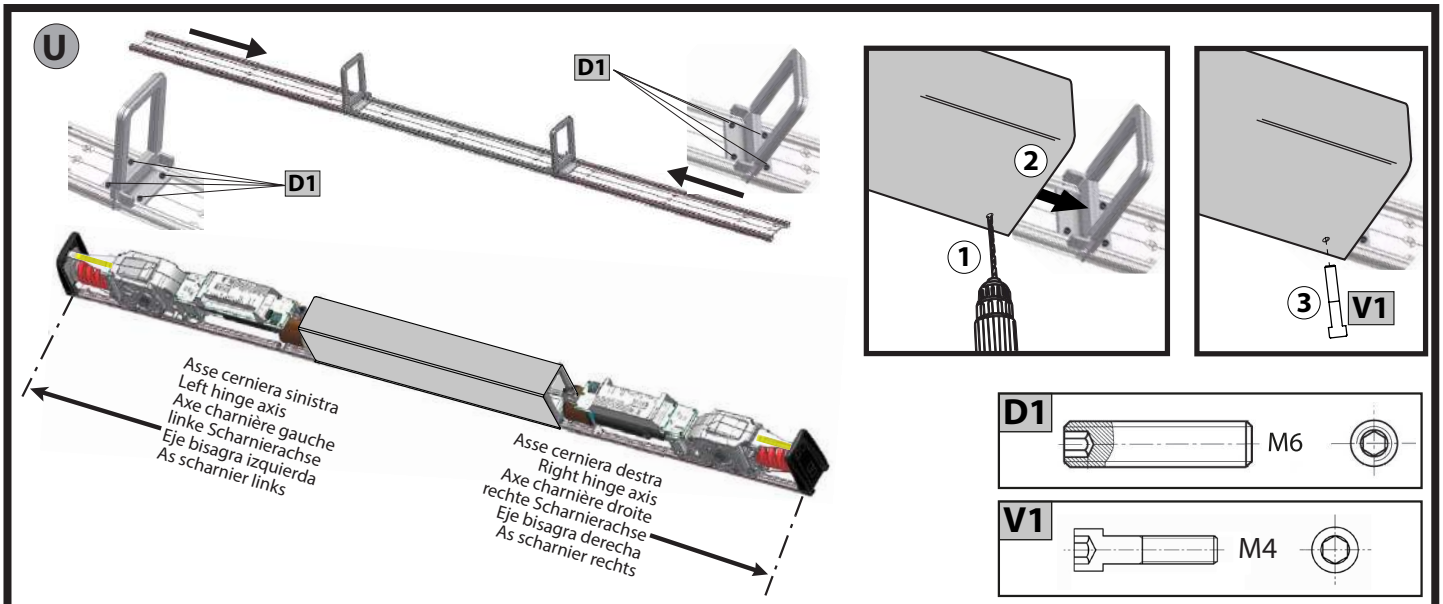

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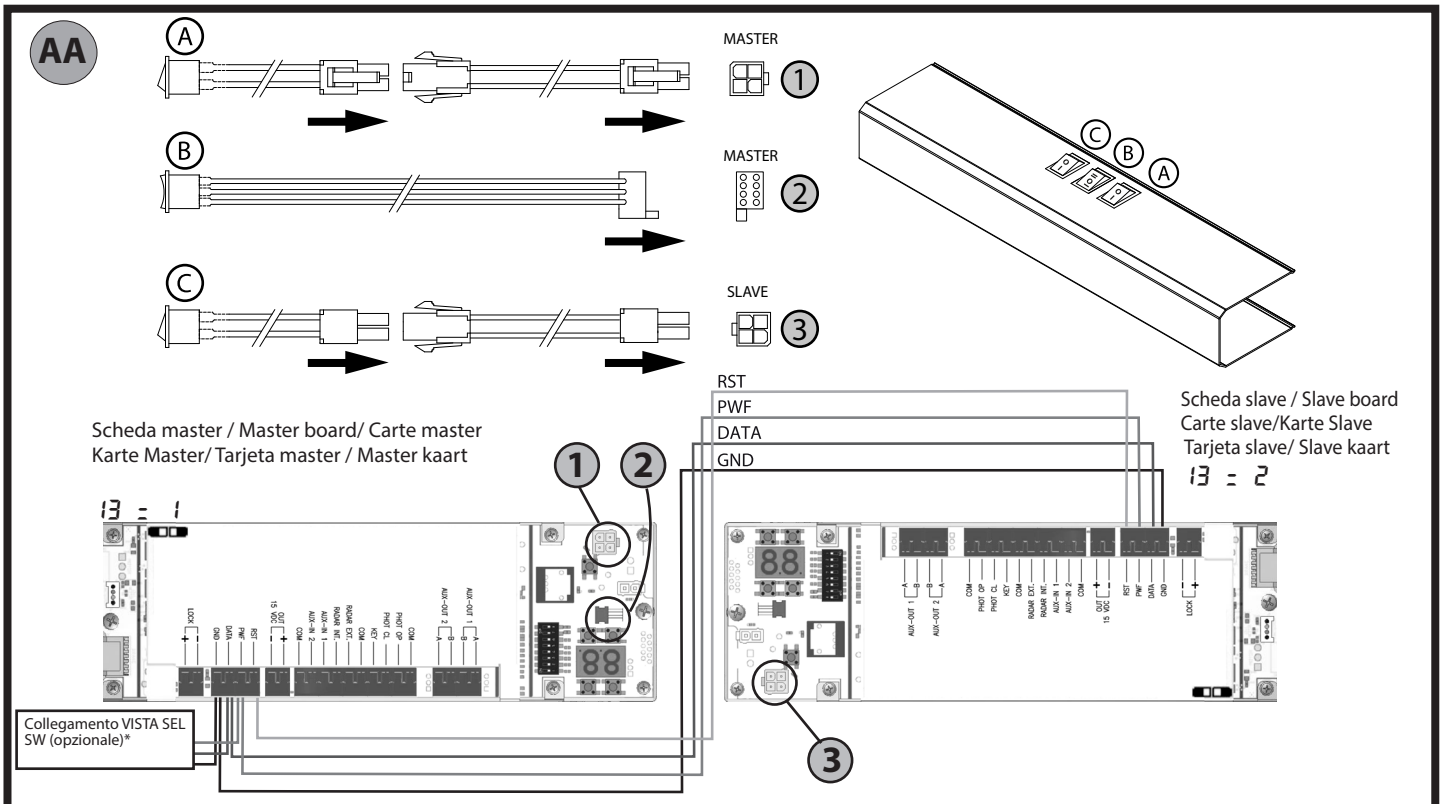
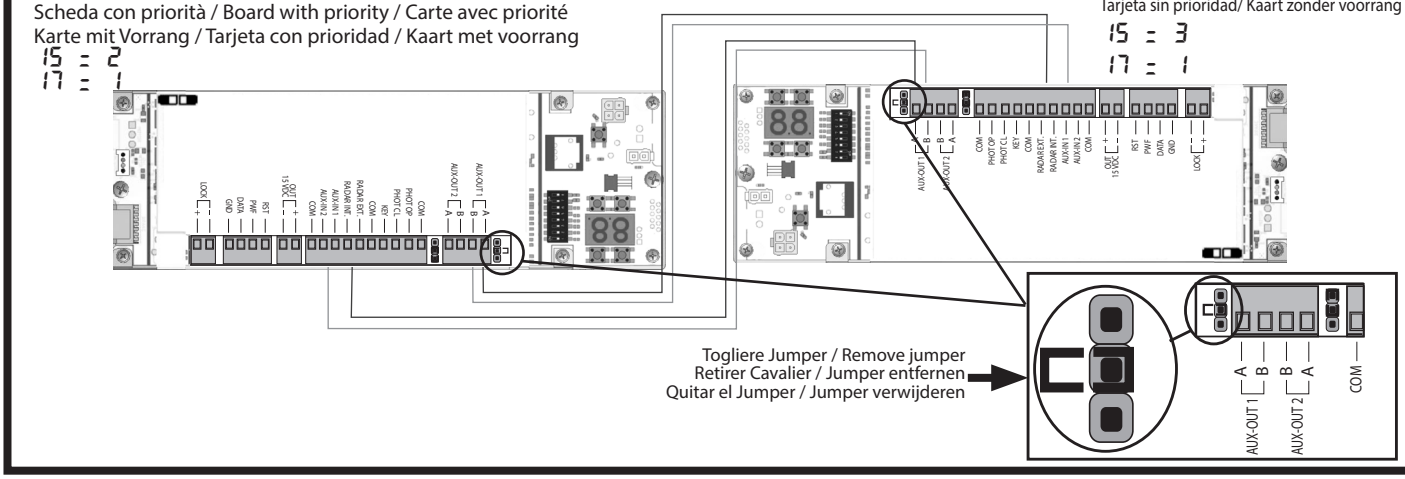


* VISTA SEL SW connection (option) / Connexion VISTA SEL SW (option) / Verbindung VISTA SEL SW (Option)/ Conexión VISTA SEL SW (opcional) / Aansluiting VISTA SEL SW (optie)

AB

Collegamento ad uso interblocco / Connection for interlocking feature / Connexion pour interverrouillage
Verbindung mit Verwendung Verblockung / Conexión con uso interbloqueo/ Aansluiting voor interlock gebruik



INSTALLER WARNINGS

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety, installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future reference.

GENERAL SAFETY

This product has been designed and built solely for the purpose indicated herein. Uses other than those indicated herein might cause damage to the product and create a hazard.

- The units making up the machine and its installation must meet the requirements of the following European Directives, where applicable: 2004/108/EC, 2006/95/EC, 2006/42/EC, 89/106/EC, 99/05/EC and later amendments. For all countries outside the EEC, it is advisable to comply with the standards mentioned, in addition to any national standards in force, to achieve a good level of safety.
- The Manufacturer of this product (hereinafter referred to as the "Firm") disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.) and for deformation that could occur during use.
- Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.
- Before installing the product, make all structural changes required to produce safety gaps and to provide protection from or isolate all crushing, shearing and dragging hazard areas and danger zones in general in accordance with the provisions of standards EN 16005 or any local installation standards. Check that the existing structure meets the necessary strength and stability requirements.
- Before commencing installation, check the product for damage.
- The Firm is not responsible for failure to apply Good Practice in the construction and maintenance of the doors, gates, etc. to be motorized, or for deformation that might occur during use.
- Make sure the stated temperature range is compatible with the site in which the automated system is due to be installed.
- Do not install this product in an explosive atmosphere: the presence of flammable fumes or gas constitutes a serious safety hazard.
- Disconnect the electricity supply before performing any work on the system. Also disconnect buffer batteries, if any are connected.
- Before connecting the power supply, make sure the product's ratings match the mains ratings and that a suitable residual current circuit breaker and overcurrent protection device have been installed upline from the electrical system. Have the automated system's mains power supply fitted with a switch or omnipolar thermal-magnetic circuit breaker with a contact separation that meets code requirements.
- Make sure that upline from the mains power supply there is a residual current circuit breaker that trips at no more than 0.03A as well as any other equipment required by code.
- Make sure the earth system has been installed correctly: earth all the metal parts belonging to the entry system (doors, gates, etc.) and all parts of the system featuring an earth terminal.
- Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 16005.
- Impact forces can be reduced by using deformable edges.
- In the event impact forces exceed the values laid down by the relevant standards, apply electro-sensitive or pressure-sensitive devices.
- Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazards. 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.
- Apply all signs required by current code to identify hazardous areas (residual risks). All installations must be visibly identified.
- Once installation is complete, apply a nameplate featuring the door/gate's data.
- If the automated system is installed at a height of less than 2.5 m or is accessible, the electrical and mechanical parts must be suitably protected.
- Install any fixed controls in a position where they will not cause a hazard, away from moving parts. More specifically, hold-to-run controls must be positioned within direct sight of the part being controlled and, unless they are key operated, must be installed at a height of at least 1.5 m and in a place where they cannot be reached by the public.
- Attach a label near the operating device, in a permanent fashion, with information on how to operate the automated system's manual release.
- Make sure that, during operation, mechanical risks are avoided or relevant protective measures taken and, more specifically, that nothing can be banged, crushed, caught or cut between the part being operated and surrounding parts.
- Once installation is complete, make sure the motor automation settings are correct and that the safety and release systems are working properly.
- Only use original spare parts for any maintenance or repair work. The Firm disclaims all responsibility for the correct operation and safety of the automated system if parts from other manufacturers are used.
- Do not make any modifications to the automated system's components unless explicitly authorized by the Firm.
- Instruct the system's user on what residual risks may be encountered, on the control systems that have been applied and on how to open the system manually in an emergency. give the user guide to the end user.
- Dispose of packaging materials (plastic, cardboard, polystyrene, etc.) in accordance with the provisions of the laws in force. Keep nylon bags and polystyrene out of reach of children.

WIRING

WARNING! For connection to the mains power supply, use: a multicore cable with a cross-sectional area of at least 5x1.5mm^2 or 4x1.5mm^2 when dealing with three-phase power supplies or 3x1.5mm^2 for single-phase supplies (by way of example, type H05 VV-F cable can be used with a cross-sectional area of 4x1.5mm^2). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm^2.

- Only use pushbuttons with a capacity of 10A-250V or more.
- Wires must be secured with additional fastening near the terminals (for example, using cable clamps) in order to keep live parts well separated from safety extra low voltage parts.
- During installation, the power cable must be stripped to allow the earth wire to be connected to the relevant terminal, while leaving the live wires as short as possible. The earth wire must be the last to be pulled taut in the event the cable's fastening device comes loose.

WARNING! safety extra low voltage wires must be kept physically separate from low voltage wires.

Only qualified personnel (professional installer) should be allowed to access live parts.

CHECKING THE AUTOMATED SYSTEM AND MAINTENANCE

Before the automated system is finally put into operation, and during maintenance work, perform the following checks meticulously:

- Make sure all components are fastened securely.
- Check starting and stopping operations in the case of manual control.
- Check the logic for normal or personalized operation.
- Check that all safety devices are working properly and that the anti-crush safety device (if fitted) is set correctly.
- Impact forces can be reduced by using deformable edges.
- Make sure that the emergency operation works, where this feature is provided.
- Check opening and closing operations with the control devices applied.
- Check that electrical connections and cabling are intact, making extra sure that insulating sheaths and cable glands are undamaged.
- While performing maintenance, clean the sensors' optics.
- When the automatic door operator is out of service for any length of time, activate the emergency release (see "EMERGENCY OPERATION" section) so that the operated part is made idle, thus allowing the door to be opened and closed manually.
- If the power cord is damaged, it must be replaced by the manufacturer or their technical assistance department or other such qualified person to avoid any risk .
- The maintenance described above must be repeated at least once yearly or at shorter intervals where site or installation conditions make this necessary.

WARNING!

Remember that the drive is designed to make the gate/door easier to use and will not solve problems as a result of defective or poorly performed installation or lack of maintenance

SCRAPPING

Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling centre.

DISMANTLING

If the automated system is being dismantled in order to be reassembled at another site, you are required to:

- Cut off the power and disconnect the whole electrical system.
- Remove the actuator from the base it is mounted on.
- Remove all the installation's components.
- See to the replacement of any components that cannot be removed or happen to be damaged.

THE DECLARATION OF CONFORMITY CAN BE VIEWED ON THIS WEBSITE: WWW.BFT.IT IN THE PRODUCT SECTION.

Anything that is not explicitly provided for in the installation manual is not allowed. The operator's proper operation can only be guaranteed if the information given is complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein.

While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

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1) GENERAL INFORMATION
Motorized header for automatic swing doors, complete with control panel. Accessories available for producing a complete installation.

2) TECHNICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS	
Leaf width	min. 700mm max. 1400mm
Leaf weight	see Fig. R
Opening speed	max. 70°/s - min. 20°/s (3 - 6 sec.)
Closing speed	max. 40°/s - min. 10°/s (4 - 15 sec.)
Max. opening angle	110°
Header size	See Fig. B
Actuator weight	11 kg
ELECTRICAL SPECIFICATIONS	
Power supply	220 - 230V~ ±10%, 50/60 Hz single phase
Fuses	see Fig. G
Accessories power supply	15Vdc - max. 12W
Rated power	85W
Temperature range	from -10°C to + 50°C (inside cover)
Operating cycle	Continuous at 25°C
Anti-crush	Anti-crush safety device when obstacles are detected
Backup batteries	(optional extras) 2 x 12V 1.2Ah
Protection rating	IP 40

3) PREPARING THE ELECTRICAL SYSTEM
Prepare the electrical system (Fig. A), referring to the standards in force. Keep mains power connections well separated from service connections (photocells, safety edges, control devices, etc.). Keep mains power connections well separated from safety extra low voltage connections.

4) IDENTIFICATION OF PARTS Fig. 1
The VISTA SW automatic door operator comprises:
1. Load-bearing aluminium header
2. Power supply unit
3. Microprocessor-based control unit
4. DC gearbox
5. End panel on power unit end
6. End panel on gearmotor end
7. Anodized aluminium cover

The following optional accessories are available to complete installation:
8. BBV SW MXL backup batteries kit for VISTA SW MXL only
9. VISTA SEL SW Digital function control station
10. EXT ASW XL 30-50-70-90 arm attachment fittings
11. TSWP XL PROFILES for VISTA SW IN PAIR (see FIG. U)
12. ASW XL ART
13. ASW XL ARTL
14. ASW XL

5) FASTENING METHOD
- Dismantling the parts Fig. 1
- Fastening the load-bearing header Fig. 2
- Cable routing Fig. B
- Reassembling the parts Fig. 1

7) INSTALLATION OPTIONS Fig. C
- With SLIDE ARM, pull option; use when automatic door operator is installed on the pull side).
- With DOUBLE LEVER ARM, push option; use when automatic door operator is installed on the push side).

7.1) INSTALLING THE SLIDE ARM Fig. D
- D1. Fasten the guide on the door leaf
- D2. Assemble the guide
- D3. Remove the arm, slide out the arm attachment fitting, rotate it by 1 or 2 teeth in the direction the door closes and fit it back in the shaft (for VISTA SW SXL only). Fasten the arm.
- D4. With the door closed, insert the arm in the automatic door operator's shaft, lining up the other end with the slide's axis.
- D5. Adjust the spring to level 4 (for VISTA SW SXL only).

7.2) INSTALLING THE DOUBLE LEVER ARM Fig. E
- E1. Fasten the arm to the leaf.
- E2. Assemble the arm and fasten it to the actuator's output shaft.
- E3. Adjust the spring to level 4 (for VISTA SW SXL only).
- E4. Loosen screws V3, position the main arm correctly at a 90° angle to the door (Fig. E4), rotate the main arm so that the two arms sit at the same angle to the door, then fasten screws V3.

8) SPRING ADJUSTMENT (for VISTA SW SXL only) Fig. C1
Spring power must be adjusted based on the width of the DOOR leaves and taking into consideration the power sizes according to standard EN 1154, in the range from 4 to 6.

9) CONTROL PANEL
9.1) CONNECTIONS Fig. G, L, M
WARNINGS - When performing wiring and installation, refer to the standards in force and, whatever the case, apply good practice principles.
The wires carrying a very low safe voltage (24V) must be kept physically separate from low-voltage wires, or they must be suitably insulated with at least 1mm of additional insulation.
Wires must be secured with additional fastening near the terminals, using devices such as cable clamps.

Terminal	Definition	Description
L	Line	Single-phase power supply 220-230V~ 50/60 Hz
⏚	Earth	
N	Neutral	
Key	Locking signal (NC)	Locking signal. If the contact opens, the control unit commands the leaves to close completely. The signal must be connected with COM if there are no devices connected.
RADAR EXT	EXT RADAR input (NO)	Opening signal. If this contact closes, the leaves are opened.
RADAR INT	INT RADAR input (NO)	Opening signal. If this contact closes, the leaves are opened.
PHOT OP	OPENING PHOTOCELL input (NC)	Opening safety signal. If the door is opening and the contact opens, the control unit commands the door to stop moving immediately. The signal must be connected with COM if there are no devices connected.
PHOT CL	CLOSING PHOTOCELL input (NC)	Closing safety signal. If the door is closing and the contact opens, the control unit commands the door to reverse immediately. The signal must be connected with COM if there are no (internal or external) devices connected.
COM	Commands common	
AUX IN 1/2	Auxiliary inputs configurable	This signal can be set to any of the configuration options given for parameters 15 and 16, see the OPERATING PARAMETER MANAGEMENT-DISPLAY table
AUX OUT 1/2	Auxiliary outputs configurable	This signal can be set to any of the configuration options given for parameters 17 and 18, see the OPERATING PARAMETER MANAGEMENT-DISPLAY table
OUT 15 VDC	Peripheral unit power supply	15Vdc output max. 12W
RST	Serial connection for Master/Slave connection and selector	
PWF		
DATA		
GND		
LOCK	Solenoid lock output max. 15W	12 and 24VDC solenoid lock output, see OPERATING PARAMETER MANAGEMENT-DISPLAY table, parameter 09,10

9.2) AUXILIARY OUTPUT CONNECTIONS Fig. N

9.3) CONNECTING DETECTORS/SAFETY SENSORS WITH TESTING DURING OPENING AND CLOSING Fig. P, Q

10) ARM TYPE SELECTION Fig. H

11) OPERATING PARAMETER MANAGEMENT - DIP SWITCH

DIP SW	Logic	Default	Cross out setting used	Description
1	Arm type	OFF	OFF	Double lever
			ON	Single lever
2	LOW ENERGY	OFF	OFF	Standard
			ON	Low Energy *
3	PUSH & GO	OFF	OFF	Disabled
			ON	Enabled **
4	KEY mode	OFF	OFF	Latching
			ON	Non-latching
5	Actuator type	OFF	OFF	VISTA SW MXL
		ON	ON	VISTA SW SXL
6	Operating mode 1	OFF	VISTA SW SXL: OFF	Motor-driven closing
			VISTA SW SXL: ON	Spring-operated closing
			VISTA SW MXL***: OFF	Continuous operation
			VISTA SW MXL***: ON	Panic opening
7	Operating mode 2	OFF	VISTA SW SXL****: OFF	No reopening when obstacle is detected during spring-operated closing
			VISTA SW SXL****: ON	Reopening when obstacle is detected during spring-operated closing
			VISTA SW MXL*****: OFF	No batteries fitted
			VISTA SW MXL*****: ON	Batteries fitted
8	Not used	OFF		

* Reduced-speed opening with increased hold time (disabled hold time) using the disabled opening command (on configurable output) [AUX IN 1, by setting parameter 15=0 ("Operating parameter management-display" section)]. Subsequent closing is spring operated with obstacle management
** Moving the leaf manually while stationary in the closed position triggers its automatic opening and closing.
*** Battery-powered panic mode
**** Motor-driven reopening in event of collision during spring-operated closing
****** Use of batteries

WARNING: confirm with RESET each DIP variation.

12) OPERATING PARAMETER MANAGEMENT - DISPLAY

PARAMETER	DEFINITION	MIN.	MAX.	DEFAULT	CUSTOM	DESCRIPTION
01	Opening speed [°/s]	20	70	60		Motor speed during opening
02	Closing speed [°/s]	10	40	20		Motor speed during closing
03	TCA [s]	0	60	0		Waiting time before automatic closing.
04	Disabled hold time [s]	5	60	5		Waiting time before automatic closing using the disabled opening command or in Low Energy mode
05	VISTA SW SXL: Spring-operated closing speed	1	9	5		Spring-operated closing speed (1=minimum speed, 9=maximum speed)
	VISTA SW MXL: Wind protection with door closed	0	9	0		Sets wind protection strength with door closed (0=wind protection disabled, 9=max. wind protection)
06	Opening force and Closing force	1	9	5		Force exerted by leaf during opening and closing before obstacle alarm is generated. (1=most sensitive; 9=least sensitive)
07	Acceleration and Deceleration	5	30	30		Acceleration and deceleration speed
08	Approach angle	10	40	20		Adjusts approach angle (closing is 1/2 of opening)
09	Solenoid lock voltage	0	1	0		0 = 12Vdc solenoid lock output
						1 = 24Vdc solenoid lock output
10	Solenoid lock type	0	6	0		0 = Not used
						1 = Pulse mode with relock when door closes again
						2 = Standard magnetic (maglock) **N.B. Maglocks can be supplied only with 24V, set the "Solenoid lock voltage" parameter to 24V.**
						3 = Fail-safe magnetic
						4 = Motorized
						5 = Pulse mode with relock when power is cut off
						6 = maglock with activation delay while closing **N.B. Maglocks can be supplied only with 24V, set the "Solenoid lock voltage" parameter to 24V.**
11	Solenoid lock management time Opening delay after lock release	0	9	2		The time depends on the solenoid lock type: - Pulse mode with relock when door closes again 50-500 ms - Magnetic & Fail-safe 200 to 2000 ms - Motorized 500 to 5000 ms - Pulse mode with relock when power is cut off 100-1000 ms
12	Closing limit switch pressure	0	9	5		Force exerted by the leaf to allow lock to engage
13	Single/Master/Slave	0	2	0		0 = Single board
						1 = Board connected as Master
						2 = Board connected as Slave
14	Door locked closed with motor and lock	0	3	3		0 = Disabled
						1 = Enabled with "Internal radar" mode
						2 = Enabled with "Standard radar" mode
						3 = Enabled with "Internal radar" and "Standard radar" mode
15	Auxiliary input 1 configuration	0	12	0		0 = Input configured as Disabled opening
						1 = Input configured as Emergency opening
						2 = Input configured as Interlock door with priority
						3 = Input configured as Interlock door without priority
						4 = Input configured as Lock Release Feedback
						5 = Input configured as Lock release
						6 = Input configured as Single Command with Master/Slave operating mode
						7 = Input configured as Standby. If activated, it sets the door to standby only with the door in the closed position.
						8 = Input configured as wake up from Standby. If activated, it restores operation following a Standby
						9 = Input configured as step-by-step command, meaning that with a pulse the door opens and stays open, standing by for another pulse to close, again with the use of Int. Radar or Ext. Radar
						10 = input configured as Temporary Stand By. If activated, the door is in stand by and therefore the closing movement is spring-loaded. If deactivated, the door works normally.
						11 = Input configured as manual operation. If active, the operation of the selector in the head is disabled.
						12 = Input configured as Stop Closed operation. If active, the operation of the selector in the head is disabled.

PARAMETER	DEFINITION	MIN.	MAX.	DEFAULT	CUSTOM	DESCRIPTION
16	Auxiliary input 2 configuration	0	12	1		0 = Input configured as Disabled opening
						1 = Input configured as Emergency opening
						2 = Input configured as Interlock door with priority
						3 = Input configured as Interlock door without priority
						4 = Input configured as Lock Release Feedback
						5 = Input configured as Lock release
						6 = Input configured as Single Command with Master/Slave operating mode
						7 = Input configured as Standby. If activated, it sets the door to standby only with the door in the closed position.
						8 = Input configured as wake up from Standby. If activated, it restores operation following a Standby
						9 = Input configured as step-by-step command, meaning that with a pulse the door opens and stays open, standing by for another pulse to close, again with the use of Int. Radar or Ext. Radar
						10 = input configured as Temporary Stand By. If activated, the door is in stand by and therefore the closing movement is spring-loaded. If deactivated, the door works normally.
						11 = Input configured as manual operation. If active, the operation of the selector in the head is disabled.
						12 = Input configured as Stop Closed operation. If active, the operation of the selector in the head is disabled.
17	Auxiliary output 1 configuration	0	5	0		0 = Output configured as Sensor supervision
						1 = Output configured as Interlock
						2 = Output configured as Door State open.
						3 = Output configured as Door State closed.
						4 = Output configured as Fault
						5 = Output configured as Lock command repeat
18	Auxiliary output 2 configuration	0	5	1		0 = Output configured as Sensor supervision
						1 = Output configured as Interlock
						2 = Output configured as Door State open.
						3 = Output configured as Door State closed.
						4 = Output configured as Fault
						5 = Output configured as Lock command repeat
19	Not used	0	0	0		Not used, must be kept at = 0
20	Safety disabling angle during opening [%]	0	40	0		Safety disabling angle during opening, percentage of total travel
21	Master/Slave Connection Opening Time Lag [s]	0	100	0		Slave motor opening delay time with respect to master motor. 100ms increments
22	Master/Slave Connection Closing Time Lag [s]	0	100	0		Master motor closing delay time with respect to slave motor. 100ms steps
23	PHOT OPEN input polarity	0	1	1		0 = N.O. Normally open
						1 = N.C. Normally closed
24	PHOT CLOSE input polarity	0	1	1		0 = N.O. Normally open
						1 = N.C. Normally closed
25	KEY input polarity	0	1	1		0 = N.O. Normally open
						1 = N.C. Normally closed
26	RADAR EXT input polarity	0	1	0		0 = N.O. Normally open
						1 = N.C. Normally closed
27	RADAR INT input polarity	0	1	0		0 = N.O. Normally open
						1 = N.C. Normally closed
28	AUX-IN 1 input polarity	0	1	0		0 = N.O. Normally open
						1 = N.C. Normally closed

PARAMETER	DEFINITION	MIN.	MAX.	DEFAULT	CUSTOM	DESCRIPTION
29	AUX-IN 2 input polarity	0	1	0		0 = N.O. Normally open 1 = N.C. Normally closed
30	AUX-OUT 1 input polarity	0	1	0		0 = N.O. Normally open 1 = N.C. Normally closed
31	AUX-OUT 2 input polarity	0	1	0		0 = N.O. Normally open 1 = N.C. Normally closed
32	Force during reset	0	9	5		Adjusts motor force at time for first operation following reset (0 = least force, 9 = most force)
33	Opening angle reduction percentage level [%]	0	50	0		During normal operation, swing will be smaller than the angle detected during the stops acquisition procedure so as to allow operation when there is no mechanical stop.
34	Assembly on lintel or on door leaf	0	2	0		0 = Motor installed on lintel 1 = Motor installed on door leaf 2 = not available
35	Disabled opening	0	1	0		0 = the speed of movement with "disabled" opening control is reduced 1 = the speed of movement with "disabled" opening control is equal to parameters 01 and 02
36	Battery operation (Logic active only with Vista SW SXL)	0	2	0		0 = standard operation 1 = continuous operation 2 = panic operation
tS	Test	0	2	0		0 = Normal operation 1 = Cyclic testing, automatic opening and closing 2 = Intensive cyclic testing, automatic opening and closing
Sd	Default				/	Restores all parameters to default values and resets the acquired travel. Procedure: 1-Select command with [+] and [-] keys; 2-Press [ENT]; 3-When display reads [--], hold [ENT] down for 5 seconds to validate; 4-When [--] disappears, release the [ENT] key
LP	Autoset				/	Travel acquisition. Procedure: 1-Select command with [+] and [-] keys; 2-Press [ENT]; 3-When display reads [--], hold [ENT] down for 5 seconds to validate; 4-When [--] disappears, release the [ENT] key.
LS	Acquisition of supervised sensors					Acquisition of connected supervised sensors. Procedure: 1-Select command with [+] and [-] keys; 2-Press [ENT]; 3-When display reads [--], hold [ENT] down for 5 seconds to validate; 4-When [--] disappears, release the [ENT] key. 5-When acquisition is done, confirm sensors detected with [ENT] or press [ESC] to cancel.

13) DOOR OPERATING MODE (With VISTA SEL or logic selection switch) Fig. O
EXTERNAL RADAR: Only the RADAR EXT input on the control circuit board is monitored.
A signal from a sensor connected to this input causes the door leaf to open and consequently close.
The solenoid lock, where fitted, locks the door leaf whenever it reaches the fully closed position.
INTERNAL RADAR: Only the RADAR INT input on the control circuit board is monitored.
A signal from a sensor connected to this input causes the door leaf to open and consequently close.
The solenoid lock, where fitted, locks the door leaf whenever it reaches the fully closed position.
RADAR IN STANDARD MODE: Both RADAR EXT and RADAR INT inputs on the control circuit board are monitored. A signal from a sensor connected to one of these inputs causes the door leaf to open and consequently close.
The solenoid lock, where fitted, locks the door leaf whenever it reaches the fully closed position.
DOOR CLOSED BY DAY: The door is locked in closed state. Panic feature, if enabled, is on.
The automatic door operator commands the door leaf to close fully. With this logic selected, the RADAR EXT and RADAR INT inputs on the control circuit board are not monitored; the solenoid lock, where fitted, locks the door leaf.
DOOR CLOSED AT NIGHT: The door is locked in closed state. Panic feature, if enabled, is off.
The automatic door operator commands the door leaf to close fully. With this logic selected, the RADAR EXT and RADAR INT inputs on the control circuit board are not monitored; the solenoid lock, where fitted, locks the door leaf.
DOOR TOTAL OPEN: The door is locked in open state. The automatic door operator commands the door leaf to open fully. With this logic selected, the RADAR EXT and RADAR INT inputs on the control circuit board are not monitored;
MANUALLY OPENED DOOR: With this logic selected, the RADAR EXT and RADAR INT inputs are disabled. The door is opened and closed manually. The opening safety sensor and closing safety sensor are only active in the event of motor-driven opening for the disabled.

14) PUTTING INTO OPERATION
1. ON/OFF switch set to 0, Fig. O.
2. Double-check you have set the Dip switches correctly, especially n° 1 and 5.
3. Double-check that the KEY, PHOT CLOSE and PHOT OPEN contacts are connected properly or, if not used, are connected to COM.
4. Power up the automatic door operator
5. Set the ON/OFF switch to 1, Fig. O
6. Check that the display reads E6
7. Set the jumper so that the display is set up correctly, Fig. AD
8. If a solenoid lock is installed, set parameter 10
9. Run the Supervised sensor acquisition procedure Select LS by pressing the [+] and [-] keys; press [ENT]. When the display reads [--], hold [ENT] down for 5 seconds to validate the command; when [--] disappears, release the [ENT] key; confirm the sensors detected with [ENT] or press [ESC] to cancel acquisition.
10. Run the Autoset procedure; Select LP by pressing the [+] and [-] keys; press [ENT]. When the display reads [--], hold [ENT] down for 5 seconds to validate the command; when [--] disappears, release the [ENT] key. The door will open and the self-learning cycle will start.

CAUTION: During opening, stop the door leaf in the position where you want travel to end in order to determine the maximum swing. Straight afterwards, the door will close fully and the message CL will flash on the display.
Once the door has reached the fully closed position and CL is no longer flashing, you can test the automatic door operator's operation by pressing the [ENT] key: the door will open and close as usual.
During normal operation, swing will be smaller than the angle detected during the stops acquisition procedure so as to allow operation when there is no mechanical stop.
Every time the system is switched back on (RESET operation), when the first command is given, the automatic door operator will try to reach the fully open position and will then close at reduced speed.

15) BRAKING LEVEL SELECTION (for VISTA SW SXL only) Fig. I

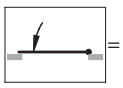
16) LOGIC SELECTION SWITCH Fig. O
In addition to managing the logic selector, you have the option of connecting a pushbutton logic selection switch, which can be used to select the three main logic modes:
- Manually opened door
- Radar in standard mode
- Door total open

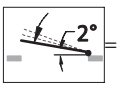
If the logic selector is fitted, operation of the pushbutton logic selection switch is inhibited

17) INSTALLING THE BATTERIES (optional extra for VISTA SW MXL only) Fig. S
1. Fit the batteries
2. Connect the batteries to the circuit board
3. Attach the battery charger board to the circuit board
4. Set Dip Switch 7=ON and Dip Switch 6 (OFF=Continuous operation; or ON=Panic opening).

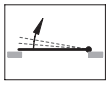
18) SOLENOID LOCK MANAGEMENT
The system is compatible with the following solenoid lock options, which can be chosen with parameter 10 (see the "Operating parameter management-display" section)

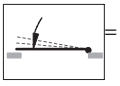
Key

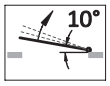
 = HAMMER



= DOOR ALMOST CLOSED

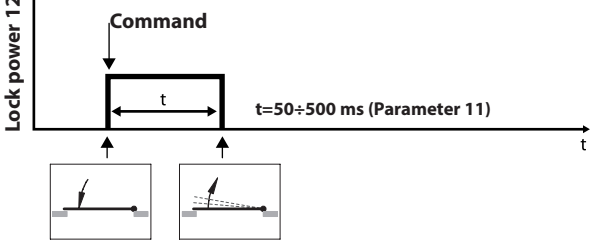
 = OPENING ACTIVATION

 = DOOR CLOSED

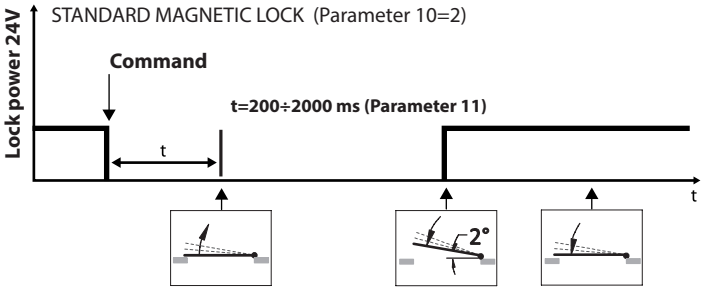


= DOOR OPEN BY 10°

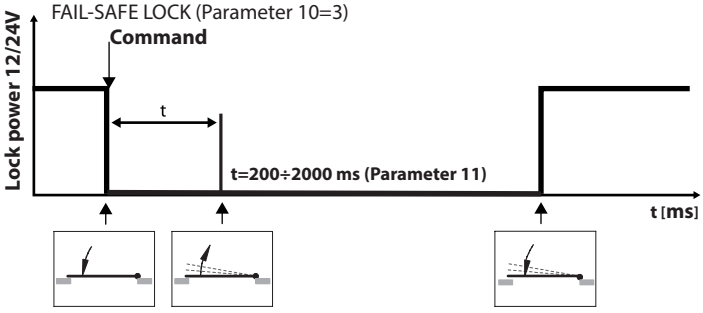
LOCK IN PULSE MODE WITH RELOCK WHEN DOOR CLOSED AGAIN (Parameter 10=1)



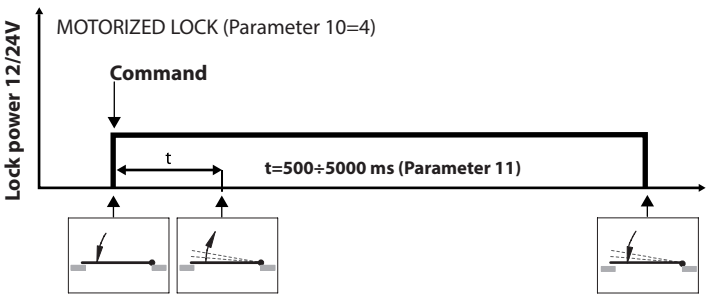
STANDARD MAGNETIC LOCK (Parameter 10=2)



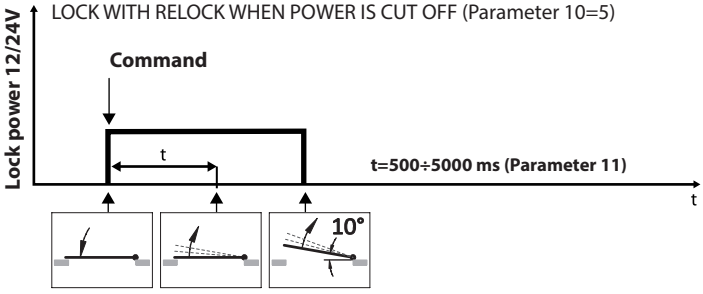
FAIL-SAFE LOCK (Parameter 10=3)



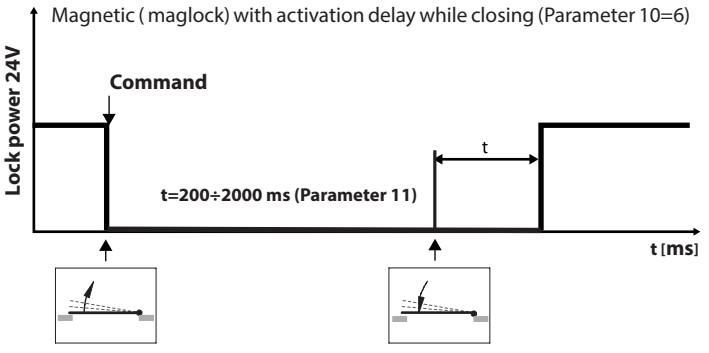
MOTORIZED LOCK (Parameter 10=4)



LOCK WITH RELOCK WHEN POWER IS CUT OFF (Parameter 10=5)



Magnetic (maglock) with activation delay while closing (Parameter 10=6)



ENGLISH

You have the option of directly managing 12 and 24VDC solenoid locks, which can be set with parameter 09 (see the "Operating parameter management-display" section). The system provides a maximum power of 15W for solenoid locks.
There is the option of managing a lock feedback command that indicates when the lock is released and activates movement. The management logic, in conjunction with the time parameter, works so that once the command is given, the control unit waits for an enabling signal from the lock and, if no such signal is received within the maximum time, it opens the door anyway [set with parameters 15 and 16 (see the "Operating parameter management-display" section)].
Depending on the type of solenoid lock, you have the option of editing the length of the activation pulse or the delay after the lock release command for movement to start. The parameter has a different meaning and adjustment range depending on the type of lock selected [set with parameter 11 (see the "Operating parameter management-display" section)].

PULSE MODE WITH RELOCK WHEN DOOR CLOSES AGAIN	determines the length of the release pulse. The door leaf starts moving when the feedback signal is activated or when the pulse ends.
MAGNETIC (with or without bolt):	determines the maximum delay after the release command for movement to start. The release signal stays active until the door has closed again.
MOTORIZED:	determines the maximum delay after the release command for movement to start. The release signal stays active until the door has closed again.
PULSE MODE WITH RELOCK WHEN POWER IS CUT OFF:	determines the length of the release pulse. The door leaf starts moving when the feedback signal is activated or when the pulse ends. In addition, power to the lock is maintained until the door opens by approx. 10°.
MAGNETIC (maglock) with activation delay while closing	Determines the maximum delay of the relock command after the door has closed again.

To ensure that the solenoid lock relocks, you can adjust closing force [set with parameter 12 (see the "Operating parameter management-display" section)].
Option of using one of the auxiliary inputs as a manual lock release command working in parallel with the automatic release command, used to open the door in manual mode [set with parameters 15 and 16 (see the "Operating parameter management-display" section)].

19) VISTA SW MASTER/SLAVE

VISTA SW Master/Slave is a connection between two automatic door operators for double swing doors. This connection can be made in two ways Fig. T:

1. using two single VISTA SW operators, one installed on each door leaf, but with a connection made between the two operators
2. using two single VISTA SW operators joined together with an extension kit (TSWP XL) Fig. U:
   - Remove the end panels from both automatic door operators.
   - Connect the two headers at each end to the kit's central header using the two couplers (Fig. U).
   - Connect the end panel switches to the control panel using the cabling provided in the kit.

19.1) CONNECTING THE BOARDS

The selector's terminal strips must be connected so that the two boards can communicate with each other and exchange the information required for the double doors to be operated correctly. The basic concept consists in making one board a "Master" board that will process the operating logic, while the other is designated a "Slave" board and will carry out the commands issued by the Master.
CAUTION: in both cases, determine which is the Master door leaf and which the Slave leaf before making any connections.
MASTER LEAF: the first to open, the last to close (when using the time lag feature)
SLAVE LEAF: the last to open, the first to close (when using the time lag feature)

Connect the selector's two terminal strips to allow communication between the two boards and ensure the two automatic door operators work correctly. (Fig. AA)

19.2) CONFIGURING THE BOARDS

- On the MASTER board, set parameter 13=1
- On the SLAVE board, set parameter 13=2

CAUTION: the two automatic door operators must be connected on the same power supply branch and no switches or fuses must be placed between the two operators. Peripheral units, if any - PHOT CLOSE, KEY, RADAR EXT and RADAR INT - must be connected to the MASTER board only.

Safety sensors (PHOT OPEN and PHOT CLOSE), on the other hand, must be connected and managed separately on the two individual boards.

- SYNCHRONOUS leaves: set parameter 21=0 and parameter 22=0 on the MASTER board only
- NON-SYNCHRONOUS leaves: set parameter 21 and parameter 22 to a value higher than 0 on the MASTER board only.

To put the automatic door operators into operation, repeat the procedure given in the "Putting into operation" section, making sure you only run the Autoset procedure on the board configured as MASTER.

CAUTION: when the Autoset operation starts, only the Master door leaf starts first. This means you will need to stop the door when it reaches the position you want as the maximum opening position. The Slave door leaf will start to move straight afterwards and you will need to stop this leaf as well when it reaches the position you want as the maximum opening position. Both doors will then immediately close fully and the message CL will flash on the display. Once both leaves have closed, CL will stay on the display without flashing and the door will be ready to work.
Both doors will reverse (RADAR EXT or INT, PHOT OPEN and PHOT CLOSE, anti-crush devices) at the same time.
You can control the solenoid lock with the relevant operating logic on both boards, just as you would if the automatic door operators were being used on their own.
Push&Go mode can be activated on both automatic door operators, in exactly the same way as it would be if the automatic door operators were being used on their own. An attempt to open the door, no matter which of the two automatic door operators detects it, will cause both doors to open.
The anti-crush devices and obstacle detectors are managed separately and independently by both boards.
If one board detects triggering of an anti-crush device during closing, it will stop both leaves and make the doors slowly open fully.
If one board detects triggering of an anti-crush device during opening, it will stop the door leaf in question and make it slowly close fully. The other leaf, which will have opened to the fully open position in the meantime, will wait for the leaf in question before it starts to close.

20) CONNECTION FOR INTERLOCKING FEATURE

The VISTA SW automatic door operator's control unit comes with the option of working in interlocked mode: simply connect it to an electronic control unit from the same family. In interlocked mode, a door can only be opened if the other leaf is not moving. To interlock two automatic door operators, proceed as follows (Fig. AB):

- connect the AUX IN 1 terminal on the board WITH PRIORITY to the AUX OUT 1 - A terminal on the board WITHOUT PRIORITY
- connect the COM terminal on the board WITH PRIORITY to the AUX OUT 1 - B terminal on the board WITHOUT PRIORITY
- connect the AUX OUT 1 - A terminal on the board WITH PRIORITY to the AUX IN 1 terminal on the board WITHOUT PRIORITY
- connect the AUX OUT 1 - B terminal on the board WITH PRIORITY to the COM terminal on the board WITHOUT PRIORITY

For connection, use a 4x0.22 shielded cable and do not connect the shielding.
In the event opening requests are received from sensors at the same time on both doors, you need to establish opening priority; do this by setting one door to WITH PRIORITY mode and the other to WITHOUT PRIORITY mode by means of the settings on each display (see the "Operating parameter management-display" section)

- set parameter 15=2 on the board WITH PRIORITY;
- set parameter 17=1 on the board WITH PRIORITY;
- set parameter 15=3 on the board WITHOUT PRIORITY;
- set parameter 17=1 on the board WITHOUT PRIORITY;

In the event opening signals are received at the same time, the door selected as WITH PRIORITY will be opened.
CAUTION: Remove the jumper located near the terminal strip on the AUX OUT-1 connector side, on both the board with priority and board without priority (Fig. AB)