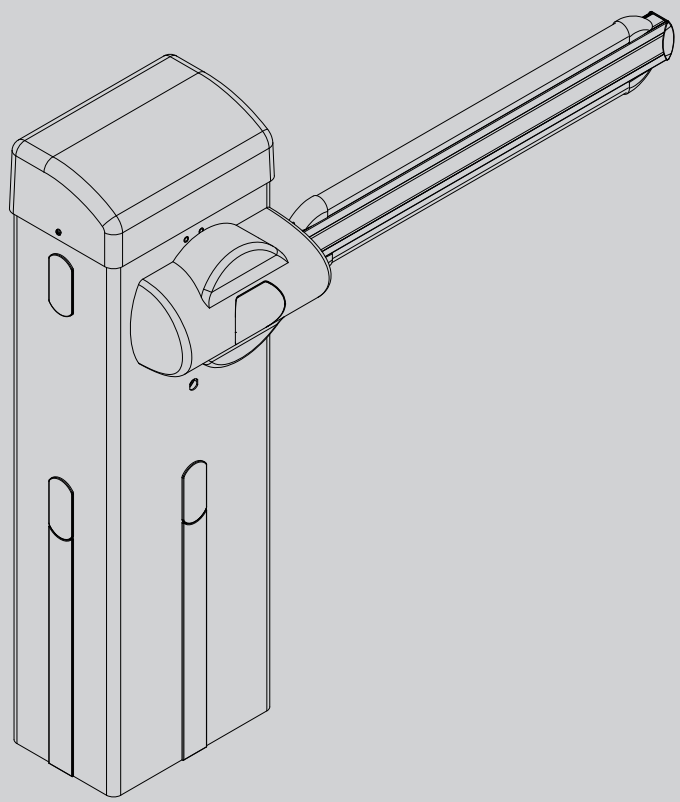
8 027908 489203 >

24 V

D812433 00100_07 07-06-21

AUTOMATISMO ELETTROMECCANICO PER BARRIERA VEICOLARE
ELECTROMECHANICAL CONTROL DEVICE FOR VEHICULAR BARRIERS
AUTOMATISME ELECTROMECANIQUE POUR BARRIERE POUR VÉHICULES
ELEKTROMECHANISCHER ANTRIEB FÜR FAHRZEUGSCHRANKEN
AUTOMATISMOS ELECTROMECANICOS PARA BARRÉRAS VEHICULAR
ELEKTROMECHANISCH AUTOMATISERINGSSYSTEEM VOOR SLAGBOOM



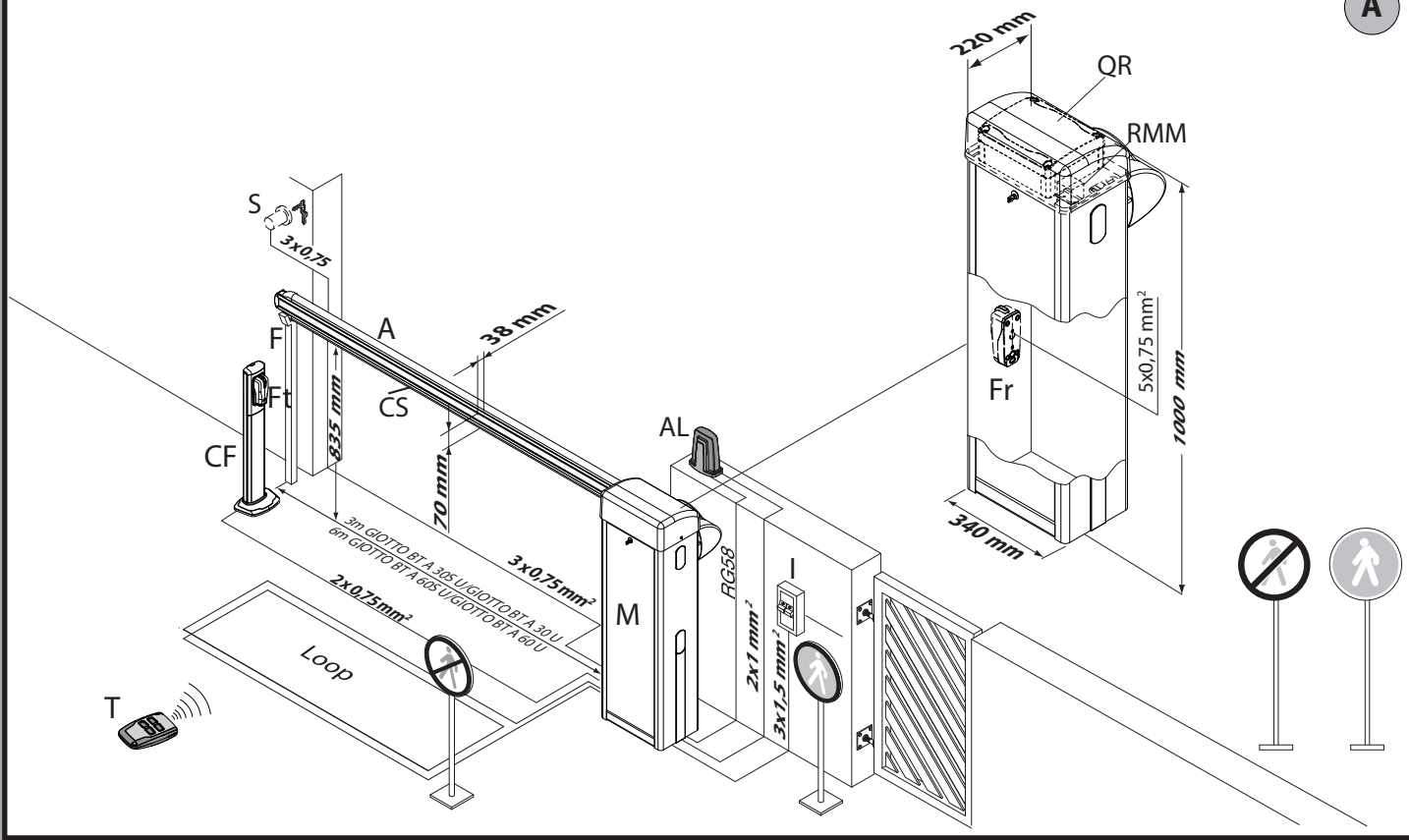
GIOTTO BT A 30-60S U
GIOTTO BT A 30-60 U

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

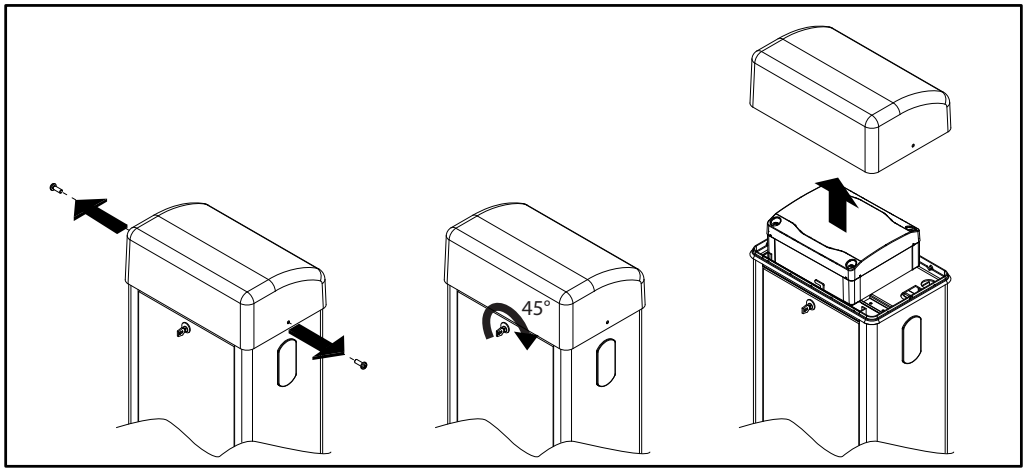
INSTALLAZIONE VELOCE-QUICK INSTALLATION-INSTALLATION RAPIDE SCHNELLINSTALLATION-INSTALACIÓN RÁPIDA - SNELLE INSTALLATIE

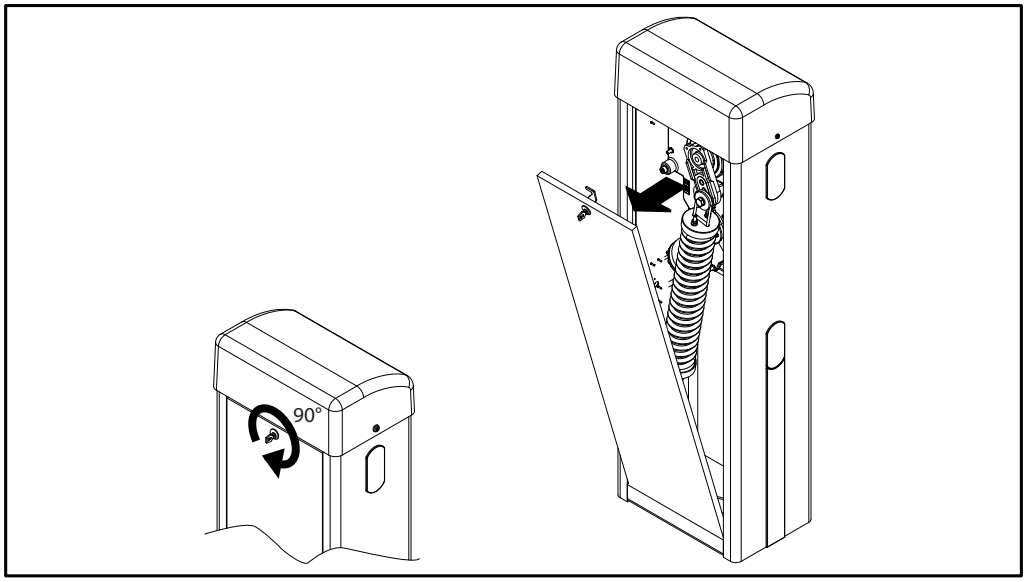
D812433 00100_07

A



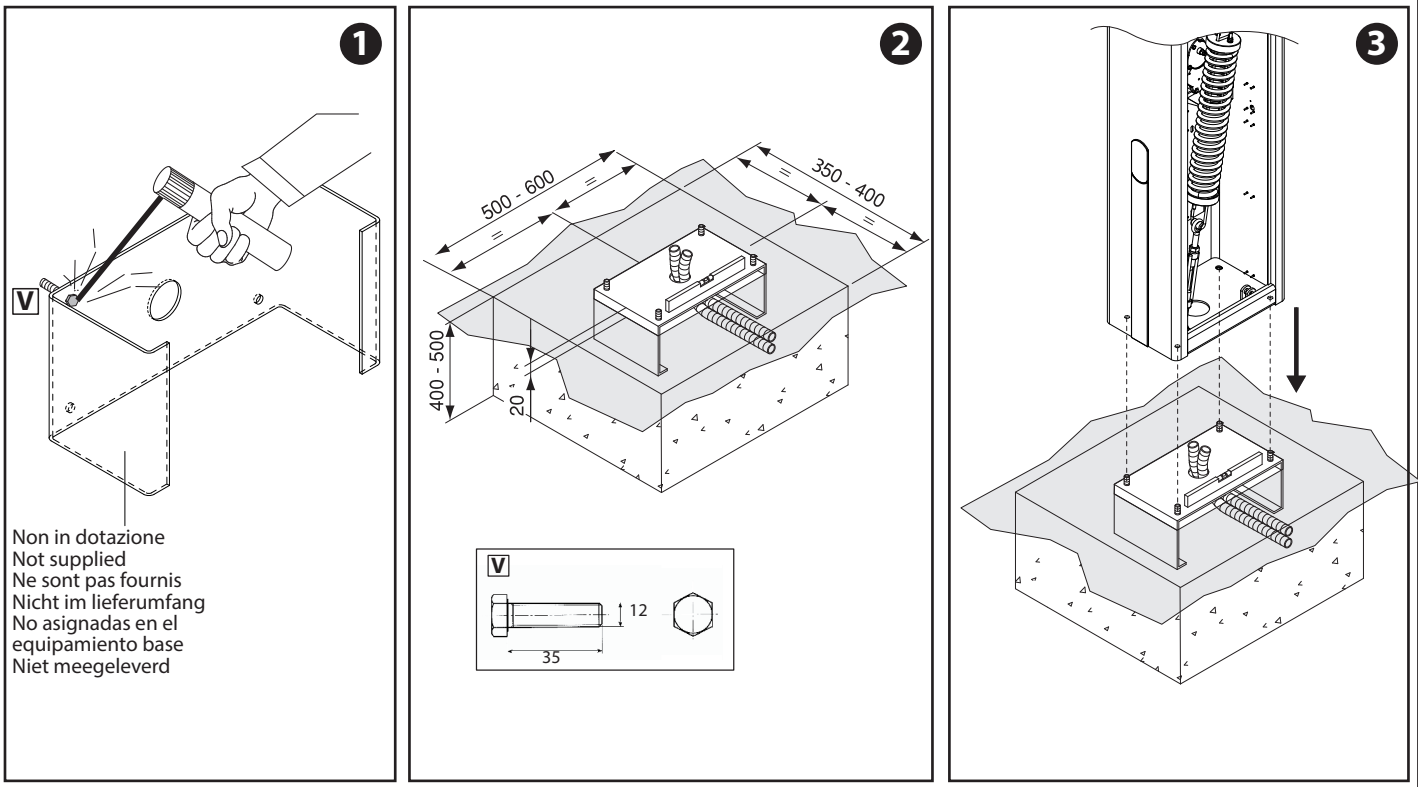
B





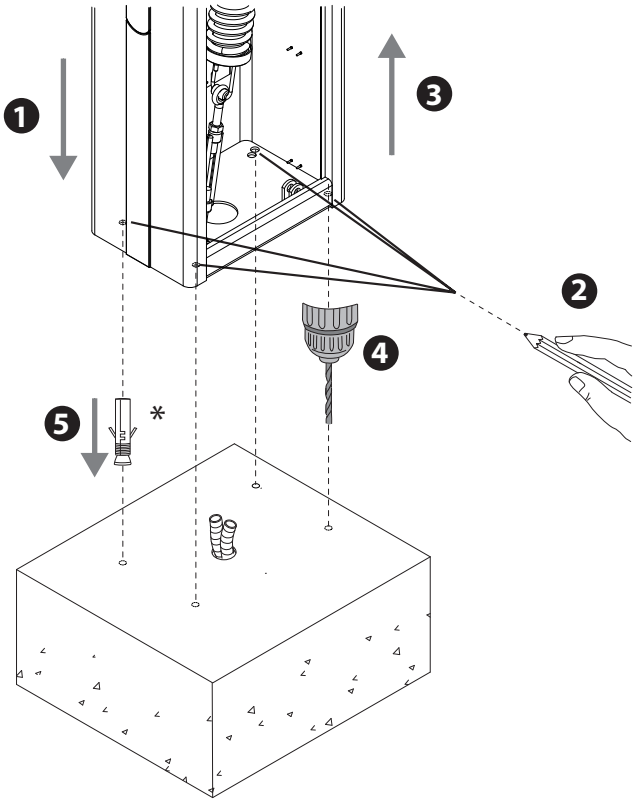
Con scavo di fondazione: // With foundation plate embedded in ground: // Avec tranchée de fondation: // Mit Fundamentgraben: // Con excavación de cimentación: // Met uitgraving:

B1

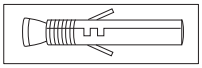


Con tiranti: // With anchor bolts: // Avec tirants: // Mit Ankerbolzen: // Con tirantes: // Met spankabels:

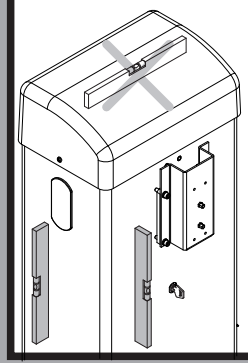
B2

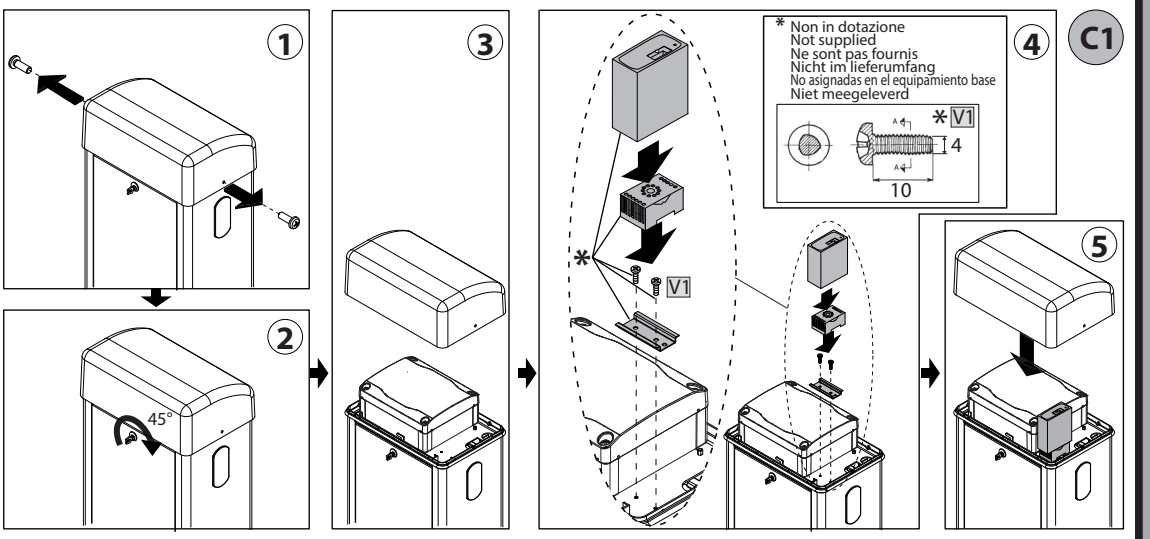


*
Non in dotazione
Not supplied
Ne sont pas fournis
Nicht im lieferumfang
No asignadas en el equipamiento base
Niet meegeleverd



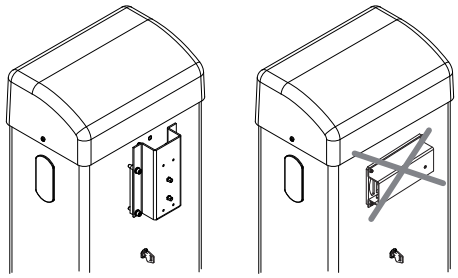
C





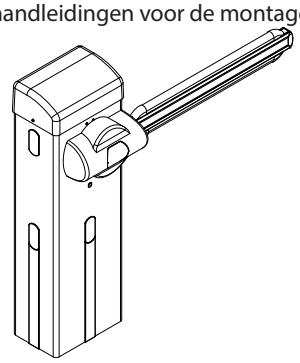
D

Montaggio Asta, Assembly of boom, Montage de la barre, Montage der Stange, Montaje mástil, Montage stang.



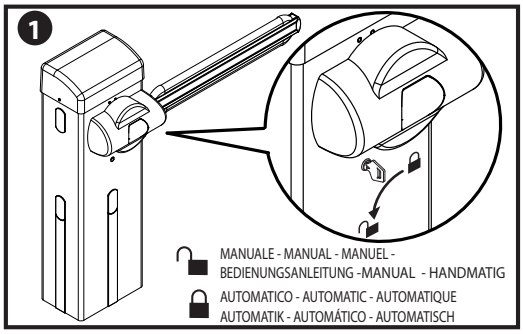
Assicurarsi che la molla non sia in tensione.
Make sure the spring is not under tension.
Vèrifiez si le ressort n'est pas en tension.
Sicherstellen, dass die Feder nicht gespannt.
Asegurarse de que el muelle no esté tensado.
Controleren of de veer niet onder spanning staat.

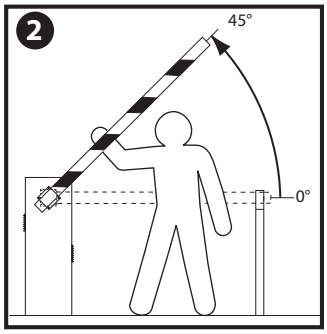
Per montaggio aste fare riferimento ai manuali
See manuals for boom assembly
Pour monter les barres consultez les manuels
Bitte nehmen Sie für die Montage der Stange auf die Handbücher Bezug
Para montar los mástiles consultar los manuales
Raadpleeg de handleidingen voor de montage van de bomen

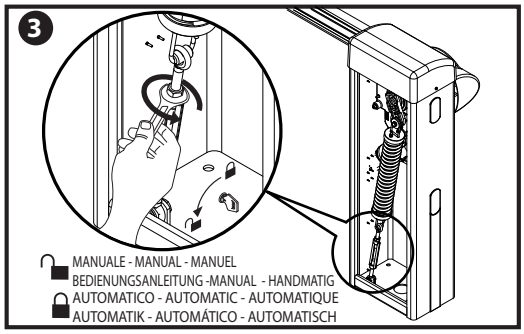


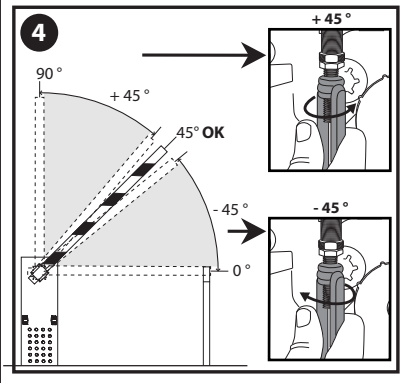
E

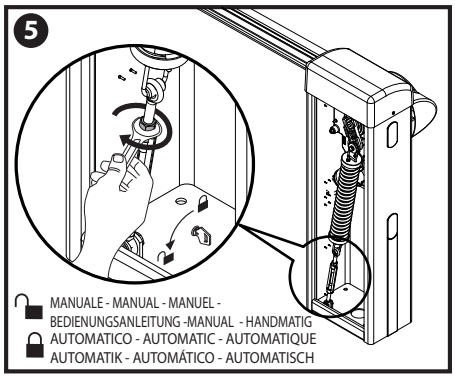
Bilanciamento Asta, Boom balancing, Equilibrage de la barre, Auswuchtung der Stange, Balance del mástil, Balancering stang.

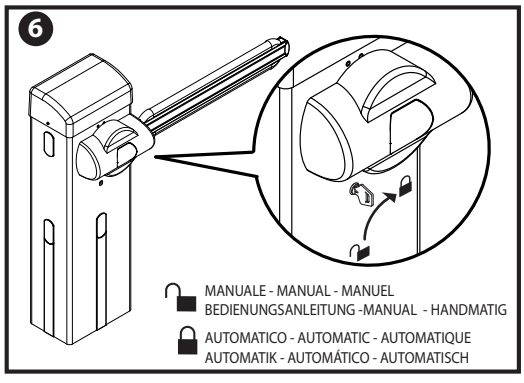






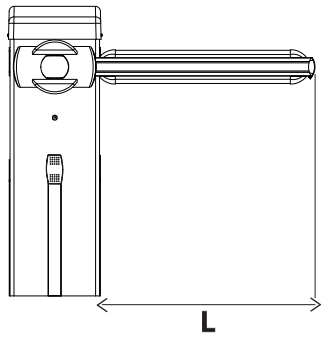






GIOTTO BT A 30U/ GIOTTO BT A 60U
GIOTTO BT A 30S U/ GIOTTO BT A 60S U

Accessori: lunghezza utile asta e bilanciamento. / Accessories: working length of boom and balancing. / Accessoires: longueur utile de la barre et équilibrage. Zubehör: Nutzlänge Schranke und Auswuchtung. / Accesorios: longitud útil mástil y balance. / Accessoires: nuttige lengte slagboom en balancering.																					
SB				+ SB	+ SB	+ SB								+ SB	+ SB	+ SB					
PCA N (solo sopra l'asta)*1				+ PCA N	+PCA N		+ PCA N	+PCA N		+ PCA N	+PCA N	+PCA N		+ PCA N	+PCAN		+ PCA N	+PCAN		+ PCA N	+PCAN	+PCAN
PCA N (solo sotto l'asta)*2										+ PCA N	+PCA N									+ PCA N	+PCAN	
KIT LIGHT				+ LIGHT			+ LIGHT			+ LIGHT				+ LIGHT			+ LIGHT			+ LIGHT		
GA AQ AT - GAMA AQ AT				+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA	+ GA/ GAMA									
BIR							+ BIR	+ BIR	+ BIR								+ BIR	+ BIR	+ BIR			
GIOTTO BT A 60 U GIOTTO BT A 60S U	A	MIN L	6 m	3,2 m	3,2 m	3,3 m	3,7 m	3,8 m	4 m	4,2 m	4,3 m	4,5 m	4,8 m	3,4 m	3,4 m	3,6 m	4,1 m	4,2 m	4,4 m	4,6 m	4,7 m	5 m
		MAX L	6 m	3,5 m	3,6 m	3,7 m	4,2 m	4,3 m	4,5 m	4,7 m	4,8 m	5 m	5 m	3,8 m	3,8 m	4 m	4,5 m	4,6 m	4,9 m	5 m	5 m	5 m
	B	MIN L	4,4 m	2,4 m	2,5 m	2,6 m	2,9 m	2,9 m	3,1 m	3,2 m	3,3 m	3,5 m	3,7 m	2,7 m	2,7 m	2,8 m	3,2 m	3,3 m	3,4 m	3,6 m	3,7 m	3,9 m
		MAX L	5 m	3,3 m	3,3 m	3,5 m	3,9 m	4 m	4,2 m	4,3 m	4,4 m	4,7 m	5 m	3,5 m	3,6 m	3,7 m	4,2 m	4,3 m	4,5 m	4,7 m	4,9 m	5 m
GIOTTO BT A 30 U GIOTTO BT A 30S U	A	MIN L		2,4 m	2,5 m	2,5 m	2,9 m	2,9 m						2,7 m	2,7 m	2,8 m						
		MAX L		2,7 m	2,7 m	2,8 m	3 m	3 m						2,9 m	2,9 m	3 m						
	B	MIN L		1,9 m	2 m	2 m	2,3 m	2,3 m	2,5 m	2,5 m	2,6 m	2,8 m	2,9 m	2,2 m	2,2 m	2,3 m	2,6 m	2,7 m	2,8 m	2,9 m		
		MAX L		2,3 m	2,3 m	2,4 m	2,7 m	2,8 m	2,9 m	3 m	3 m	3 m	3 m	2,5 m	2,5 m	2,6 m	3 m	3 m	3 m	3 m		
	C	MIN L	2,1 m	1 m	1,1 m	1,1 m	1,2 m	1,3 m	1,3 m	1,4 m	1,4 m	1,5 m	1,6 m	1,3 m	1,3 m	1,3 m	1,5 m	1,6 m	1,7 m	1,7 m	1,8 m	1,9 m
		MAX L	3 m	1,9 m	2 m	2 m	2,3 m	2,3 m	2,5 m	2,5 m	2,6 m	2,8 m	2,9 m	2,2 m	2,2 m	2,3 m	2,6 m	2,7 m	2,8 m	2,9 m	3 m	3 m



L: Lunghezza utile asta.
L: Working boom length.
L: Longueur utile de la barre.
L: Nutzlänge der Schranke.
L: Longitud útil mástil.
L: Nuttige lengte slagboom.

*1
(above boom only)
(uniquement sur la barre)
(nur über der Schranke)
(sólo sobre el mástil)
(alleen boven de slagboom)

*2
(below boom only)
(uniquement sous la barre)
(nur unter der Schranke)
(sólo debajo el mástil)
(alleen onder de slagboom)

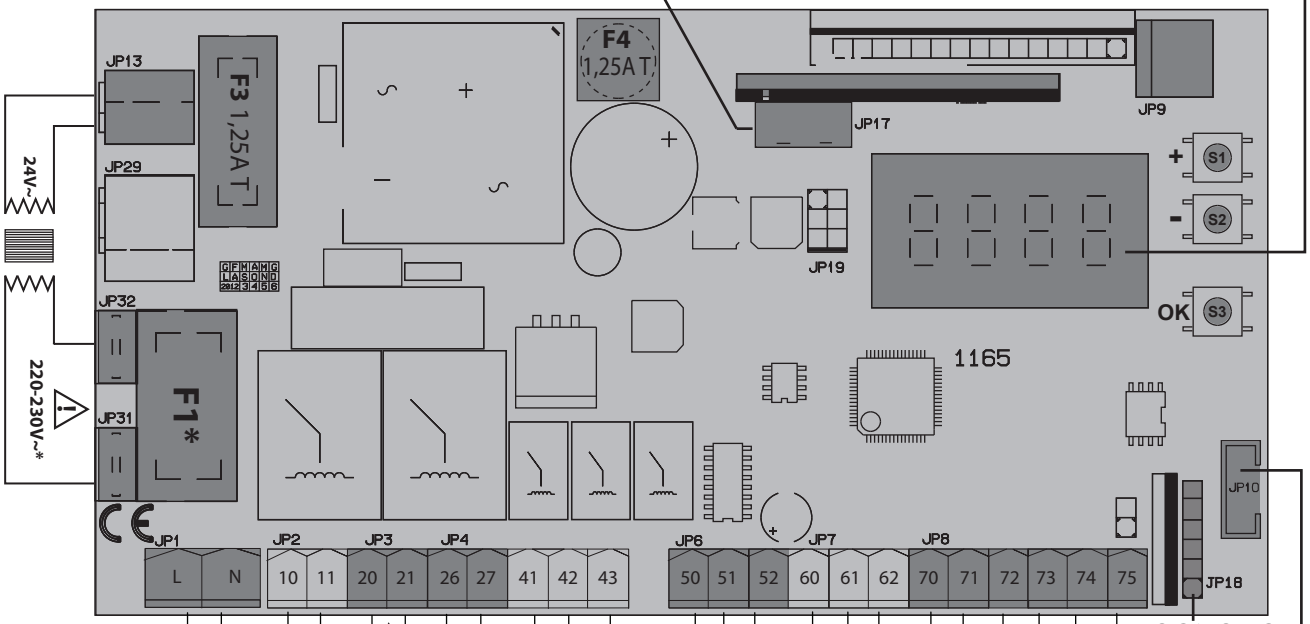
Collegamenti morsettiera, Terminal board wiring, Branchements sur le bornier, Anschlüsse Klemmleiste, Conexiones tablero de bornes, Aansluitingen aansluitkast.

G

D812433 00100_07

Connettore scheda opzionale / Optional board connector, Connecteur carte facultative / Steckverbinder Zusatzkarte, Conector de la tarjeta opcional / Connector optionele kaart.

Display + tasti programmazione / Display plus programming keys, Afficheur et touches de programmation / Display und Programmierungstasten, Pantalla más botones de programación / Display meerdere toetsen programmeur.



Connettore programmatore palmare, Palmtop programmer connector, Connecteur programmateur de poche, Steckverbinder Palmtop-Programmierer, Conector del programador de bolsillo, Connector programmeerbare palmtop.

Connettore encoder
Encoder connector
Connecteur encodeur
Steckverbindung Encoder
Conector Encoder
Connector encoder

FAULT 2
SAFE 2
FAULT 1
SAFE 1
STOP
COM
IC 2
IC 1
COM
24 VSafe+
24V +
24V -
RIFO
RIFC
+ REF SW
AUX 3 (MAX 24V 1A)
AUX 0 - 24V (MAX 1A)
24V
M1
L N
220-230V *

Sicurezze
Safety devices
Sécurités
Sicherheitsvorrichtungen
Dispositivos de seguridad
Veiligheden

Comandi / Commands
Commandes/Bedienelemente
Mandos/ Commando's

NC NC NC NC NO NO

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

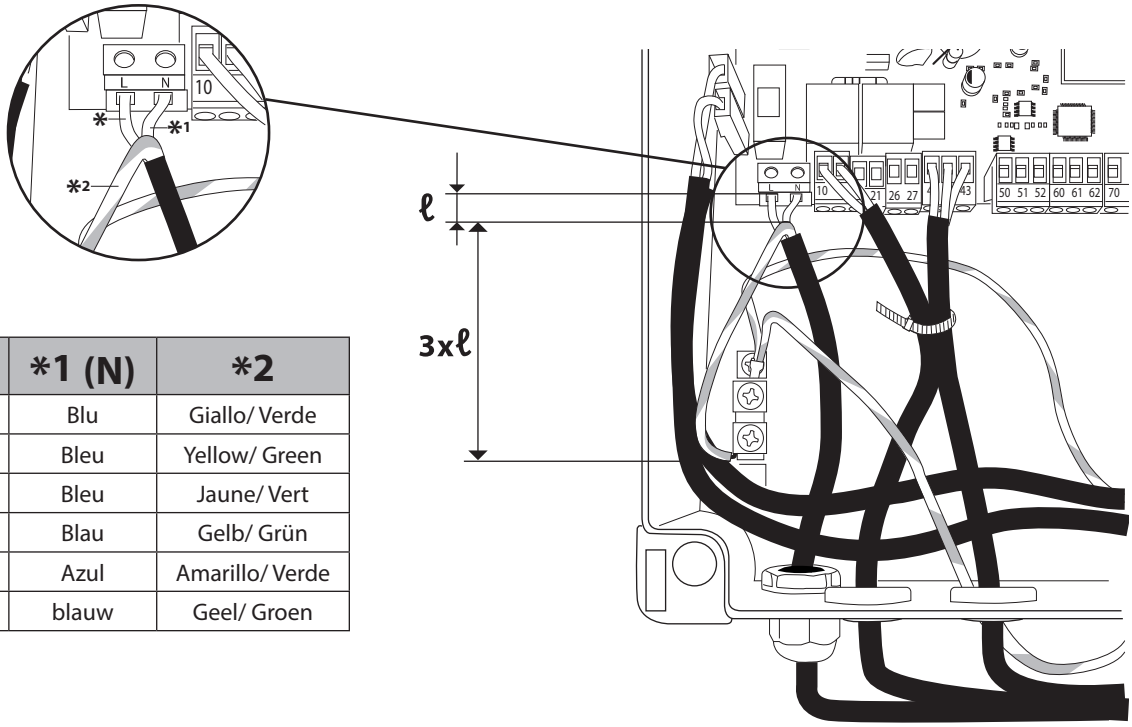
Collegamento gruppo finecorsa
Limit switch assembly connection
Connexion groupe fin de course
Anschluss Endschaltergruppe
Conexión grupo final de carrera
Verbinding groep eindaanslagen

AUX

Motore / Motor
moteur/Motor
Eindaanslag
Encoder

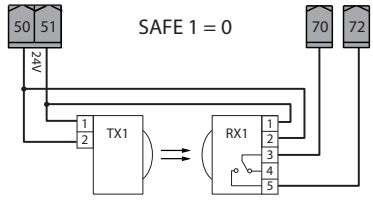
Alimentazione
Power supply
Alimentation
Stromversorgung
Alimentación
Voeding

***F1:**
1,25 AT: GIOTTO BT A U 230V
2,5 AT: GIOTTO BT A U 120V
2 AT: GIOTTO BT A S U 230V
4 AT: GIOTTO BT A S U 120V



* (L)	*1 (N)	*2
Marrone	Blu	Giallo/ Verde
Brown	Bleu	Yellow/ Green
Marron	Bleu	Jaune/ Vert
Braun	Blau	Gelb/ Grün
Maron	Azul	Amarillo/ Verde
bruin	blauw	Geel/ Groen

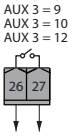
1



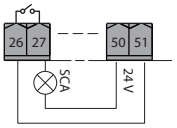
Collegamento di 1 coppia di fotocellule non verificate,
Connection of 1 pair of non-tested photocells,
Connexion 1 paire photocellules no vérifiées,
Anschluss von einem Paar nicht überprüften Fotozellen,
Conexión de 1 par fotocélulas no comprobadas,
Aansluiting van 1 paar fotocellen anders dan "trusted device".

2

AUX 3 = 0
AUX 3 = 2
AUX 3 = 3
AUX 3 = 4
AUX 3 = 5
AUX 3 = 6
AUX 3 = 7
AUX 3 = 8
AUX 3 = 9
AUX 3 = 10
AUX 3 = 12



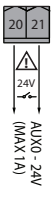
AUX 3 = 1



3

H

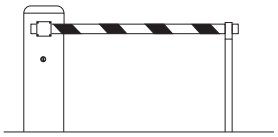
AUX 0 = 0
AUX 0 = 1
AUX 0 = 2
AUX 0 = 3
AUX 0 = 4
AUX 0 = 5
AUX 0 = 7
AUX 0 = 8
AUX 0 = 9
AUX 0 = 10
AUX 0 = 12

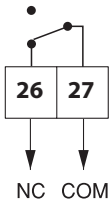


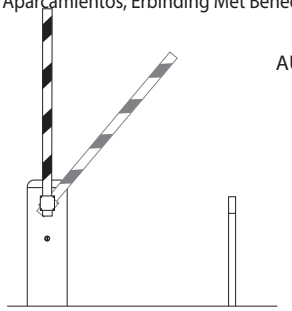
AUX 0 = 6

4 Connessione A Sistema Gestione Parcheggi, Connection To Car-park Management System, Connexion Au Système De Gestion Des Parkings, Anschluss An Das Parkplatzbewirtschaftungssystem, Conexion Al Sistema De Gestion De Aparcamientos, Erbinding Met Beheersysteem parkeerplaatsen

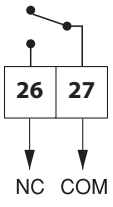
AUX 3 = 12



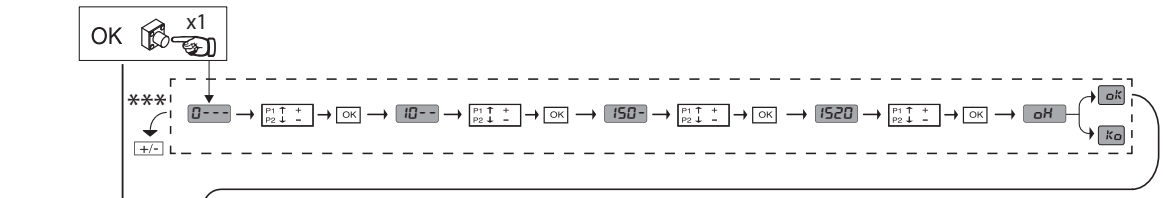




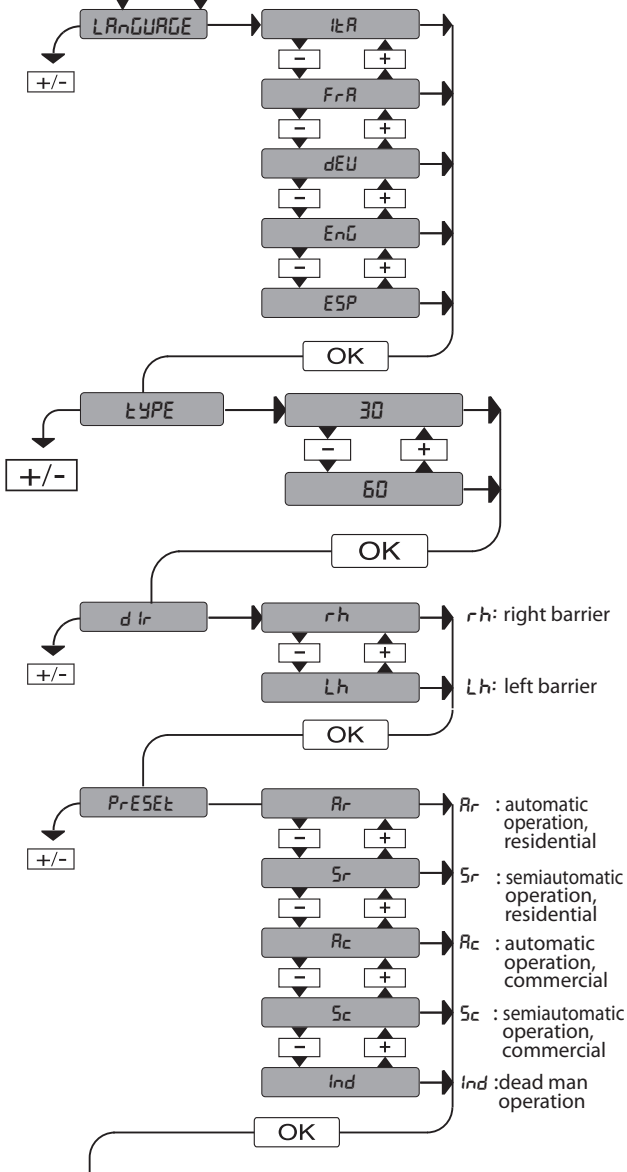
AUX 3 = 12

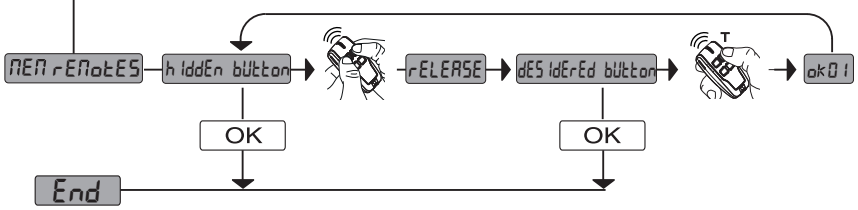


SIMPLIFIED MENU (FIG .1)



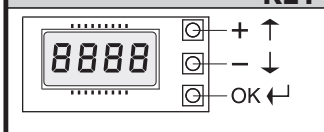
***** Password entry.**
Request with Protection Level logic set to 1, 2, 3, 4

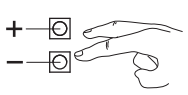




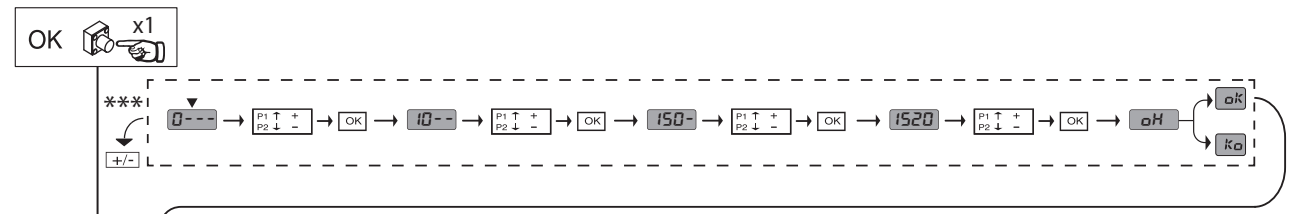
PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETERS						
Automatic closing time [s]	10	10	10	5	5	5
LOGIC						
Automatic Closing Time	1	1	0	1	0	0
Step-by-step movement	1	1	0	1	0	0
Pre-alarm	0	0	0	1	1	0
Deadman	0	0	0	0	0	1
Block pulses during opening	1	0	0	1	1	0

KEY

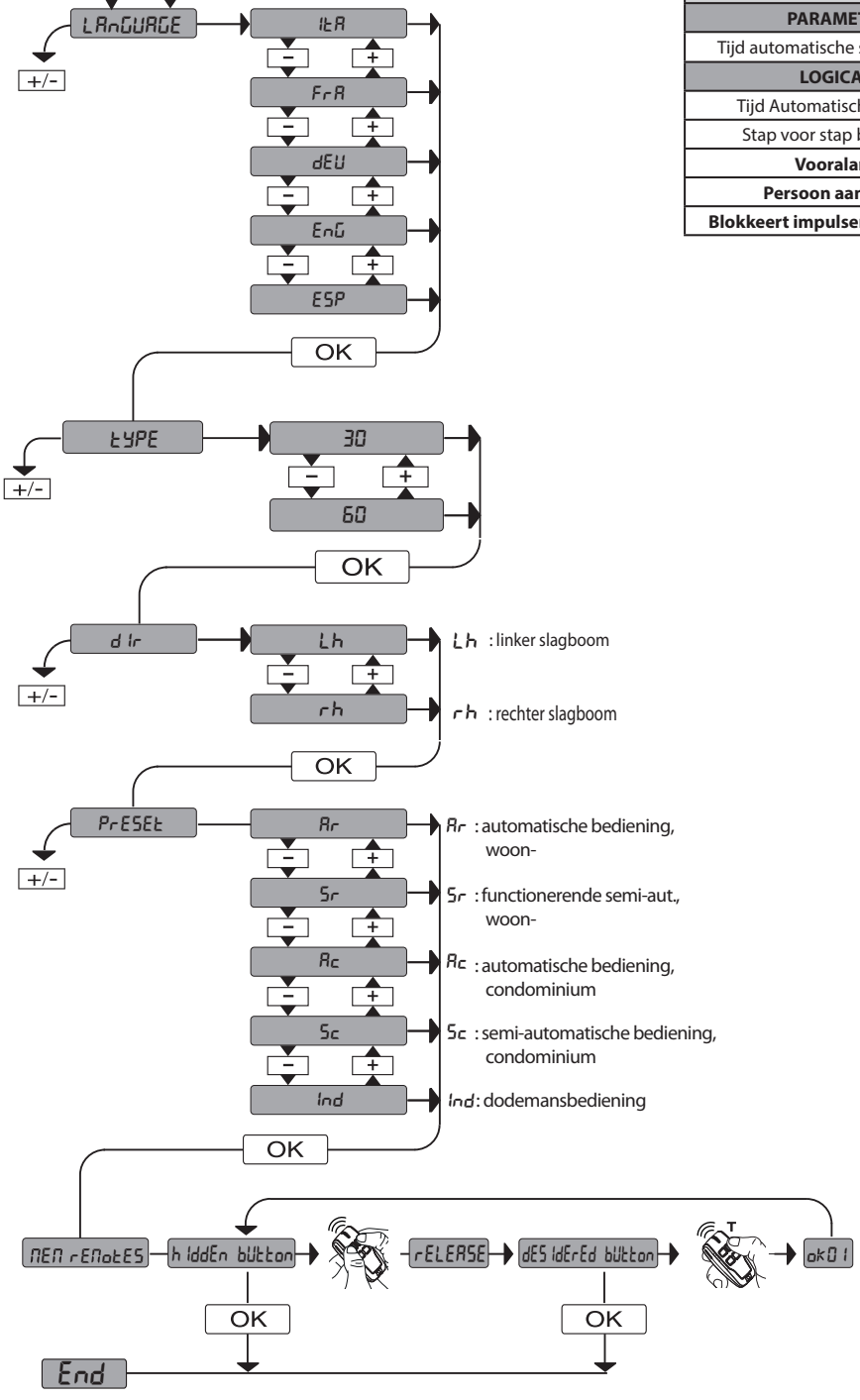




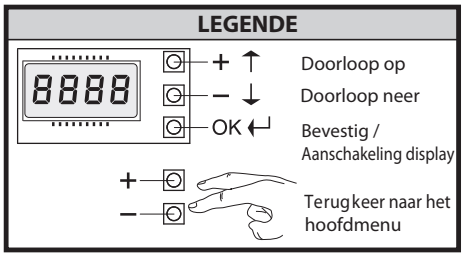
SIMPLIFIED MENU (FIG.1)



***** Password invoeren.**
Aanvraag met logica Beschermingsniveau ingesteld op 1, 2, 3, 4



PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETER						
Tijd automatische sluiting [sec.]	10	10	10	5	5	5
LOGICA'S						
Tijd Automatische Sluiting	1	1	0	1	0	0
Stap voor stap beweging	1	1	0	1	0	0
Vooralarm	0	0	0	1	1	0
Persoon aanwezig	0	0	0	0	0	1
Blokkeert impulsen bij opening	1	0	0	1	1	0

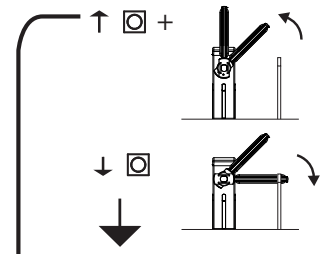


ITALIANO
ENGLISH
FRANÇAIS
DEUTSCH
ESPAÑOL
PORTUGUÊS

REGOLAZIONI PRELIMINARI, PRELIMINARY ADJUSTMENTS, RÉGLAGES PRÉALABLES, VORBEREITENDE EINSTELLUNGEN, REGULACIONES PRELIMINARES, INLEIDENDE REGELS

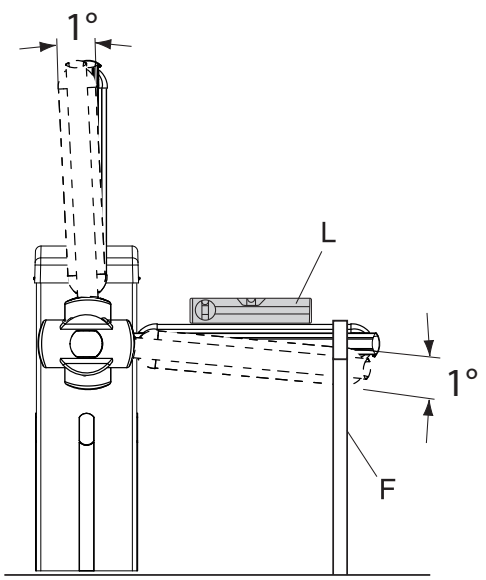
I

D812433 00100_07



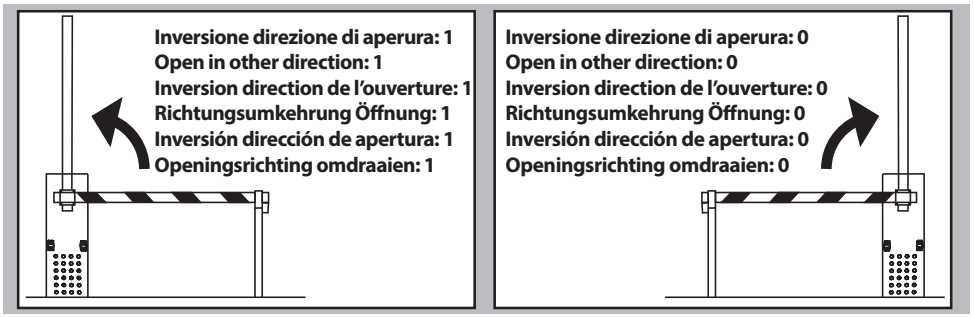
Modificare i valori seguenti fino a raggiungere il movimento dell'asta desiderato,
Edit the following values until you are happy with boom movement,
Modifiez les valeurs suivantes jusqu'à ce que la barre se déplace de la façon voulue,
Die folgenden Werte verändern, bis die gewünschte Bewegung der Stange erzielt wird,
Modificar los siguientes valores hasta lograr el movimiento deseado del mástil,
Onderstaande waarden wijzigen tot de beweging van de gewenste stang bereikt wordt.

J

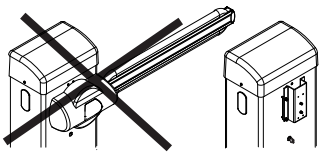


MONTAGGIO ASTA DESTRA, ASSEMBLY OF RIGHT BOOM, MONTAGE DE LA BARRE DROITE, RECHTE MONTAGE DER STANGE, MONTAJE MÁSTIL DERECHO, MONTAGE RECHTERSTANG.

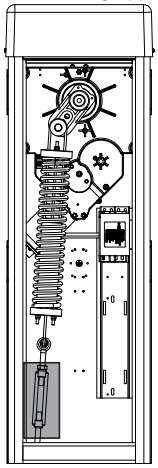
AA

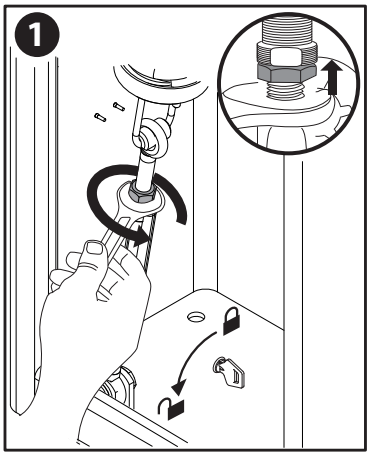


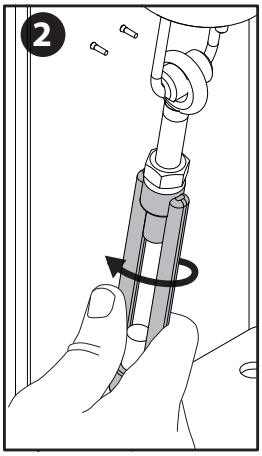
Assicurarsi che la molla non sia in tensione, e l'asta non sia montata.
Make sure the spring is not under tension and the boom is not fitted.
Vérifiez si le ressort n'est pas en tension et si la tige n'est pas montée.
Sicherstellen, dass die Feder nicht gespannt und die Stange nicht montiertist.
Asegurarse de que el muelle no esté tensado y de que el mástil no esté montado.
Controleren of de veer niet onder spanning staat, en de stang niet gemonteerd is.

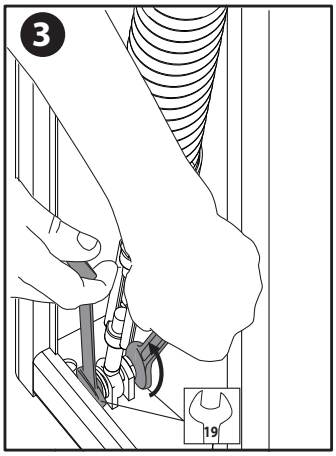


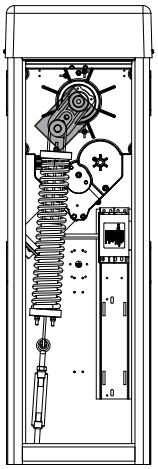
Smontare il gruppo molla. Remove the spring assembly. Démonter le groupe ressort. Die Feder-Baugruppe ausbauen. Desmontar el grupo muelle. De groep veer demonteren.

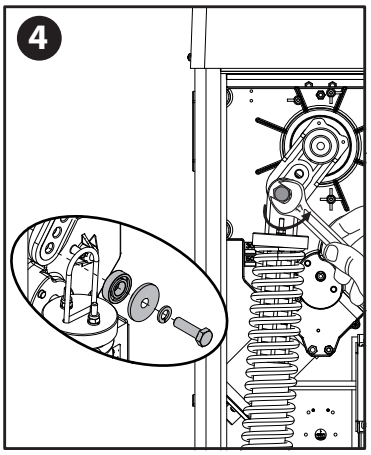


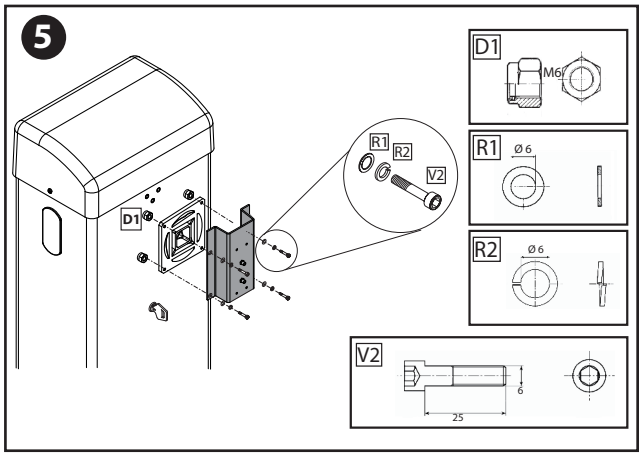




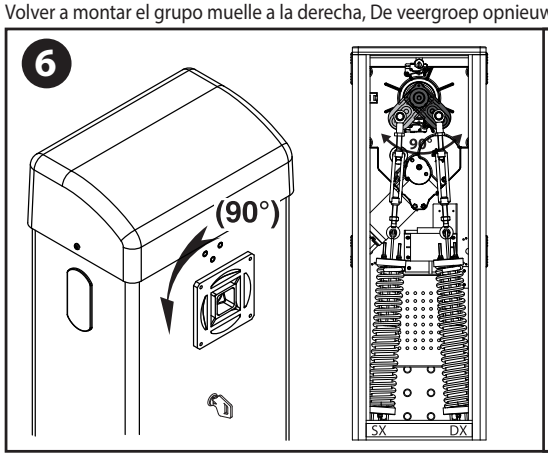


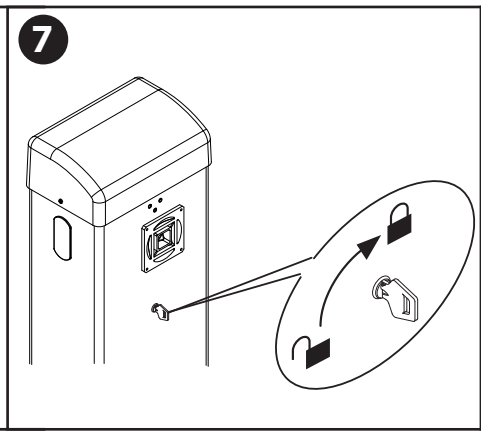


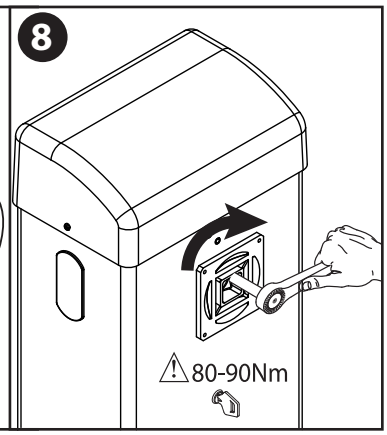




Rimontare il gruppo molla a destra, Ret the right-hand spring assembly, Remontez le groupe ressort à droite, Die Baugruppe neu montieren, Feder rechts, Volver a montar el grupo muelle a la derecha, De veergroep opnieuw rechts monteren.







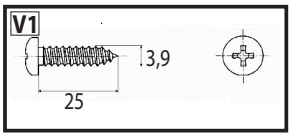
MONTAGGIO LAMPEGGIANTE, FITTING THE FLASHING LIGHT, MONTAGE DU CLIGNOTANT, MONTAGE DER BLINKLEUCHTE, MONTAJE DEL INDICADOR PARPADEANTE, MONTAGE FOTOCEL

AB

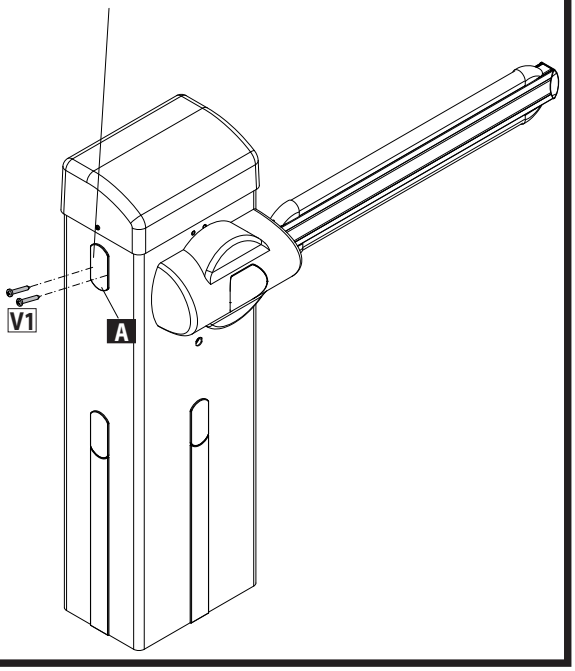
Per l'installazione del lampeggiante fare riferimento ai manuali del lampeggiante
See the flashing light's manual for instructions on installing the flashing light
Pour monter le clignotant consultez le manuel du clignotant
Bitte nehmen Sie für die Installation der Blinkleuchte auf das Handbuch der Blinkleuchte Bezug
Para instalar el indicador parpadeante consultar el manual del mismo
Raadpleeg de handleiding van het zwaailicht voor de installatie van het zwaailicht

ATTENZIONE! togliere il coperchietto A
PLEASE NOTE! Remove cover A
ATTENTION ! Retirez le couvercle A
ACHTUNG! Entfernen Sie die Abdeckung A
¡ATENCIÓN! Quitar la tapa A
OPGELET! Demonteer het klepje A

ATTENZIONE! fissare il lampeggiante alla barriera con la vite (V1)
PLEASE NOTE! Fasten the flashing light on the barrier using the screw (V1)
ATTENTION ! Fixez le clignotant sur la barrière avec la vis (V1)
ACHTUNG! Befestigen Sie die Blinkleuchte mit der Schraube (V1) an der Schranke
¡ATENCIÓN! Fijar el indicador parpadeante a la barrea con el tornillo (V1)
OPGELET! Bevestig het zwaailicht met de schroef (V1) aan de slagboom



Installazione lampeggiante
Installing the flashing light
Installation du clignotant
Installation der Blinkleuchte
Instalación del indicador parpadeante
Installatie zwaailicht



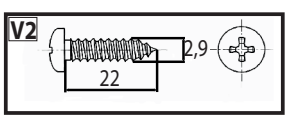
MONTAGGIO FOTOCELLULA, FITTING THE PHOTOCELL , MONTAGE DE LA PHOTOCELLULE, MONTAGE DER FOTOZELLE,MONTAJE DE LA FOTOCÉLULA, MONTAGE FOTOCEL

AC

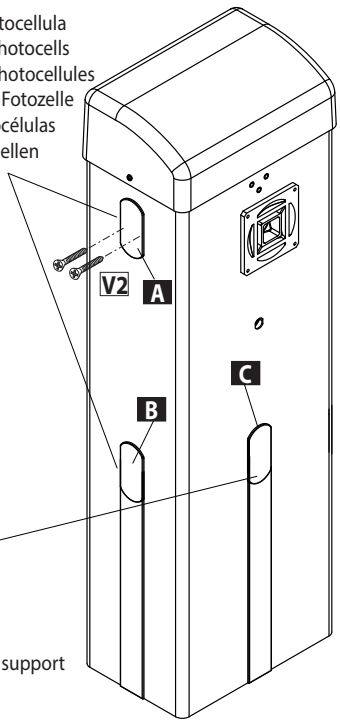
Per l'installazione della fotocellula e della fotocellula con supporto colonnina fare riferimento ai manuali delle fotocellule e ai manuali supporto colonnina
See the photocell's manuals and post mount's manuals for instructions on installing the photocell and photocell with post mount
Pour monter la photocellule et la photocellule avec colonnette de support consultez le manuel des photocellules et le manuel de la colonnette de support
Bitte nehmen Sie für die Installation der Fotozelle und der Fotozelle mit Säulenhalterung auf das Handbuch der Fotozellen und auf das Handbuch der Säulenhalterung Bezug
Para instalar la fotocélula y la fotocélula con soporte columna consultar el manual de las fotocélulas y el manual del soporte columna
Raadpleeg de handleiding van de fotocellen en de handleiding van de steunpilaar voor de montage van de fotocel en de fotocel met steunpilaar

ATTENZIONE! togliere il coperchietto A, B o C per installare la fotocellula o il supporto colonnina
PLEASE NOTE! Remove cover A, B or C to install the photocell or post mount
ATTENTION ! Retirez le couvercle A, B ou C pour monter la photocellule ou la colonnette de support
ACHTUNG! Entfernen Sie die Abdeckung A, B oder C für die Installation der Fotozelle oder der Säulenhalterung
¡ATENCIÓN! Quitar la tapa A, B o C para instalar la fotocélula o el soporte columna
OPGELET! Demonteer het klepje A, B of C voor de installatie van de fotocel of de steunpilaar

ATTENZIONE! fissare la fotocellula alla barriera con la vite qui illustrata (V2)
PLEASE NOTE! Fasten the photocell on the barrier using the screw (V2)
ATTENTION ! Fixez la photocellule sur la barrière avec la vis (V2)
ACHTUNG! Befestigen Sie die Fotozelle mit der Schraube (V2) an der Schranke
¡ATENCIÓN! Fijar la fotocélula a la barrea con el tornillo (V2)
OPGELET! Bevestig de fotocel met de schroef (V2) aan de slagboom

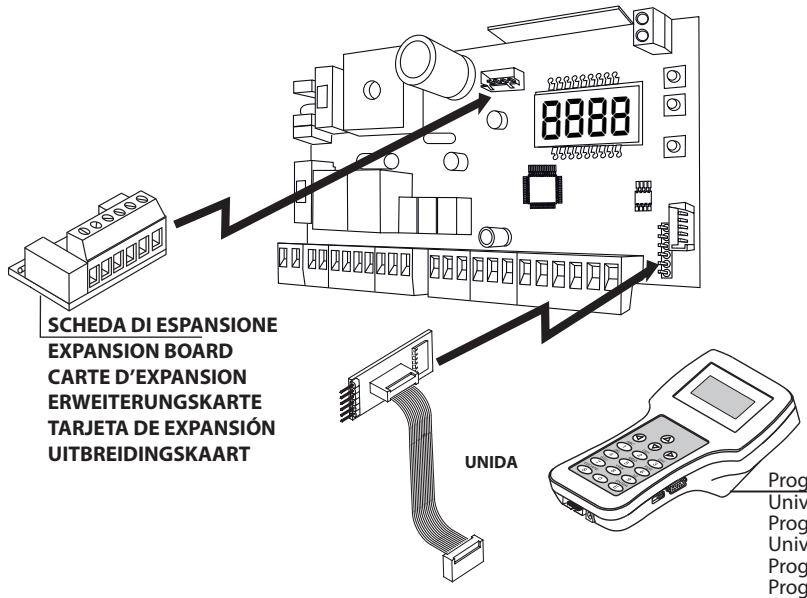


Installazione fotocellula
Installing the photocells
Montage des photocellules
Installation der Fotozelle
Instalación fotocélulas
Installatie fotocellen



Installazione fotocellula
con relativo supporto
Installing the photocell with post mount
Montage de la photocellule avec colonnette de support
Installation der Fotozelle mit Säulenhalterung
Instalación fotocélula con soporte columna
Installatie fotocel met steunpilaar

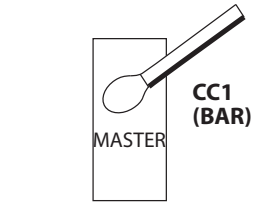
K



L

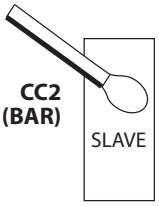
Ind ir i22o:**0**
AddrESS:**0**
AdrESSE:**0**
AdrESSE:**0**
d irEcc ion:**0**

Podo SEr iALE:**3**
SEr iAL PodE:**3**
PodE SEr iE:**3**
SEr iELLEr PodU5:**3**
Podo SEr iA:**3**



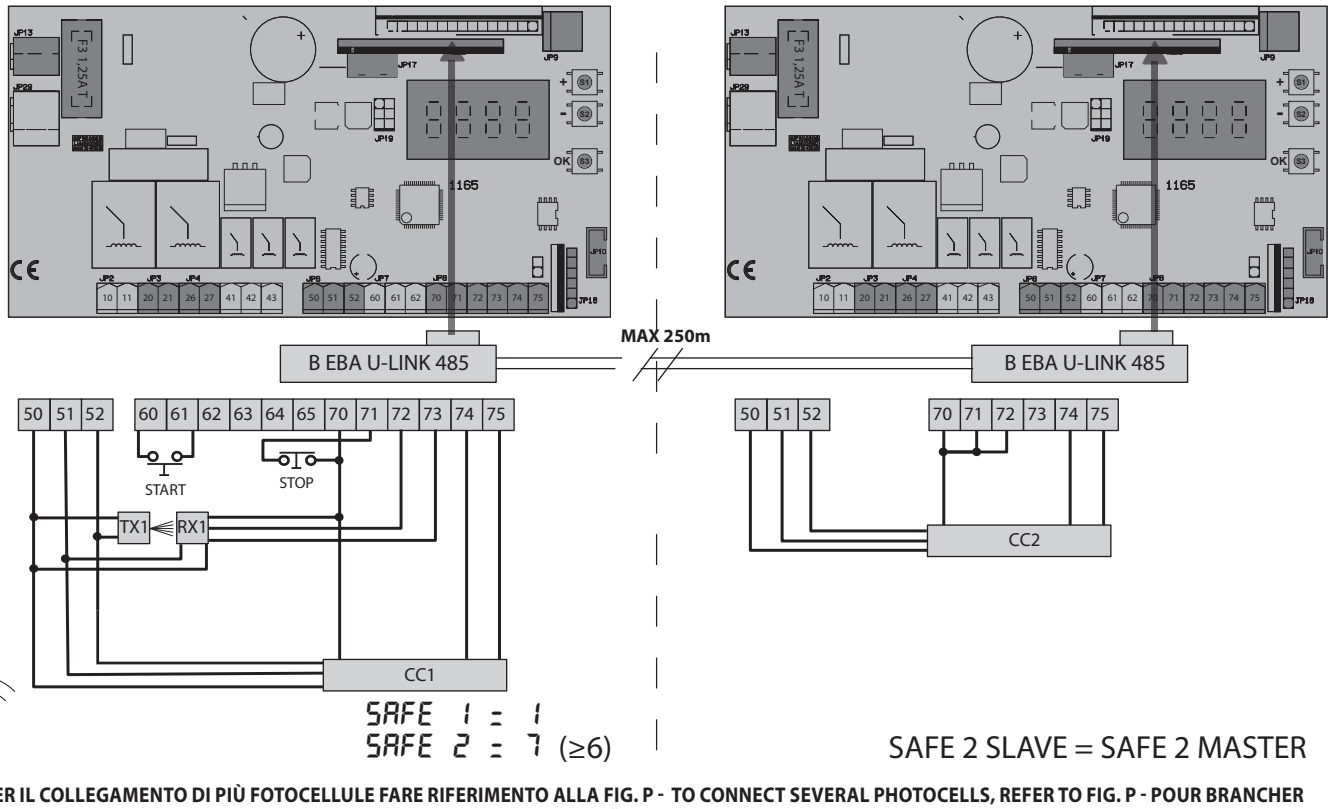
CC1 (BAR)

CC2 (BAR)



Ind ir i22o:**0**
AddrESS:**0**
AdrESSE:**0**
AdrESSE:**0**
d irEcc ion:**0**

Podo SEr iALE:**2**
SEr iAL PodE:**2**
PodE SEr iE:**2**
SEr iELLEr PodU5:**2**
Podo SEr iA:**2**

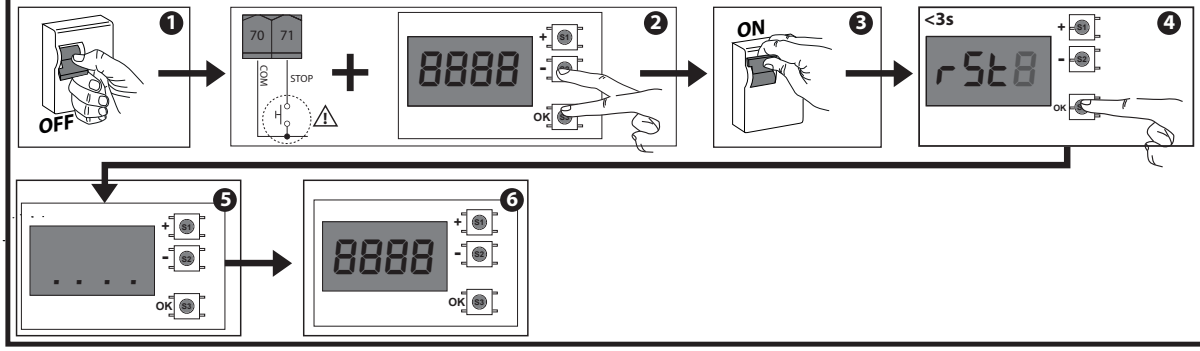


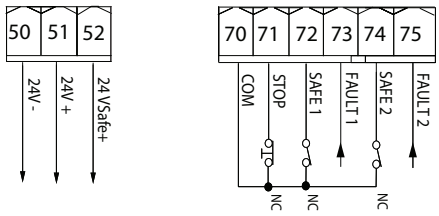
SAFE 1 = 1
SAFE 2 = 7 (≥6)

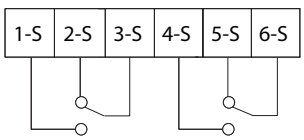
SAFE 2 SLAVE = SAFE 2 MASTER

PER IL COLLEGAMENTO DI PIÙ FOTOCELLULE FARE RIFERIMENTO ALLA FIG. P - TO CONNECT SEVERAL PHOTOCELLS, REFER TO FIG. P - POUR BRANCHER PLUSIEURS PHOTOCELLULES CONSULTEZ LA FIG. P - BITTE NEHMEN SIE FÜR DEN ANSCHLUSS MEHRERER FOTOZELLEN AUF FIG. P BEZUG - PARA LA CONEXIÓN DE VARIAS FOTOCÉLULAS CONSULTAR LA FIG. P - VOOR HET VERBINDEN VAN MEERDERE FOTOCELLEN ZIE FIG. P

M







(SCS-MA)

N

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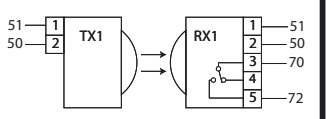
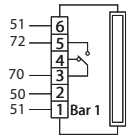
SAFE 1

TEST OFF — SAFE 1 = 0,2,4

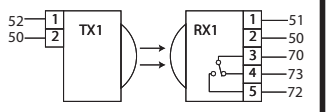
1 PHOT / 1 PHOT OP / 1 PHOT CL



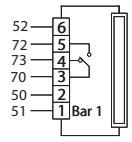
3 BAR — SAFE 1 = 6



2 PHOT / 1 PHOT OP / 1 PHOT CL

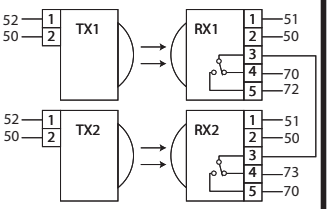


4 BAR



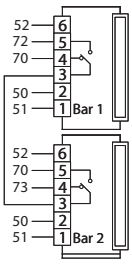
TEST ON — SAFE 1 = 1,3,5

2 PHOT / 2 PHOT OP / 2 PHOT CL

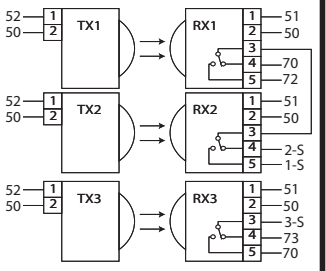


SAFE 1 = 7

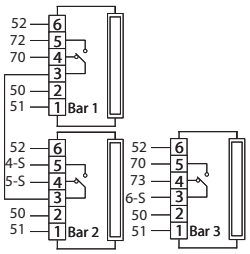
2 BAR



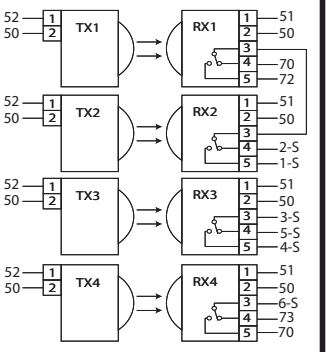
3 PHOT / 3 PHOT OP / 3 PHOT CL



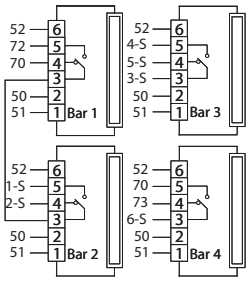
3 BAR



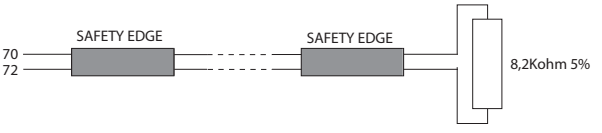
4 PHOT / 4 PHOT OP / 4 PHOT CL



4 BAR



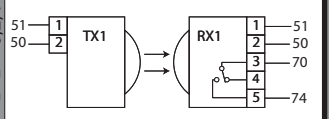
BAR 8K2 — SAFE 1 = 8



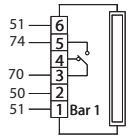
SAFE 2

TEST OFF — SAFE 2 = 0,2,4

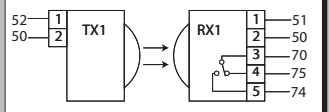
1 PHOT / 1 PHOT OP / 1 PHOT CL



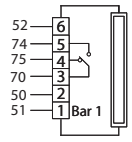
3 BAR — SAFE 2 = 6



2 PHOT / 1 PHOT OP / 1 PHOT CL

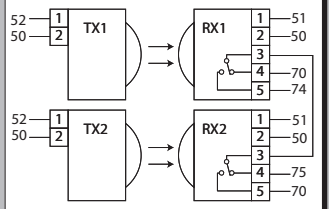


4 BAR



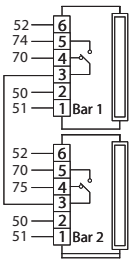
TEST ON — SAFE 2 = 1,3,5

2 PHOT / 2 PHOT OP / 2 PHOT CL

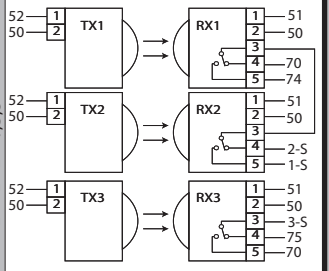


SAFE 2 = 7

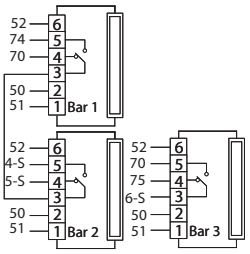
2 BAR



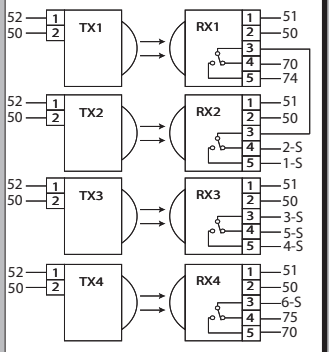
3 PHOT / 3 PHOT OP / 3 PHOT CL



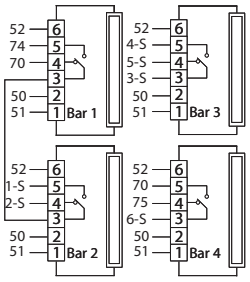
3 BAR



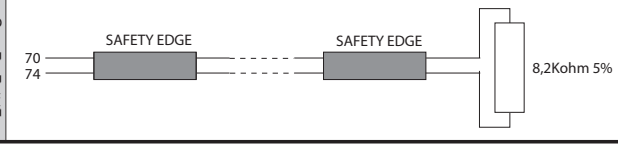
4 PHOT / 4 PHOT OP / 4 PHOT CL



4 BAR

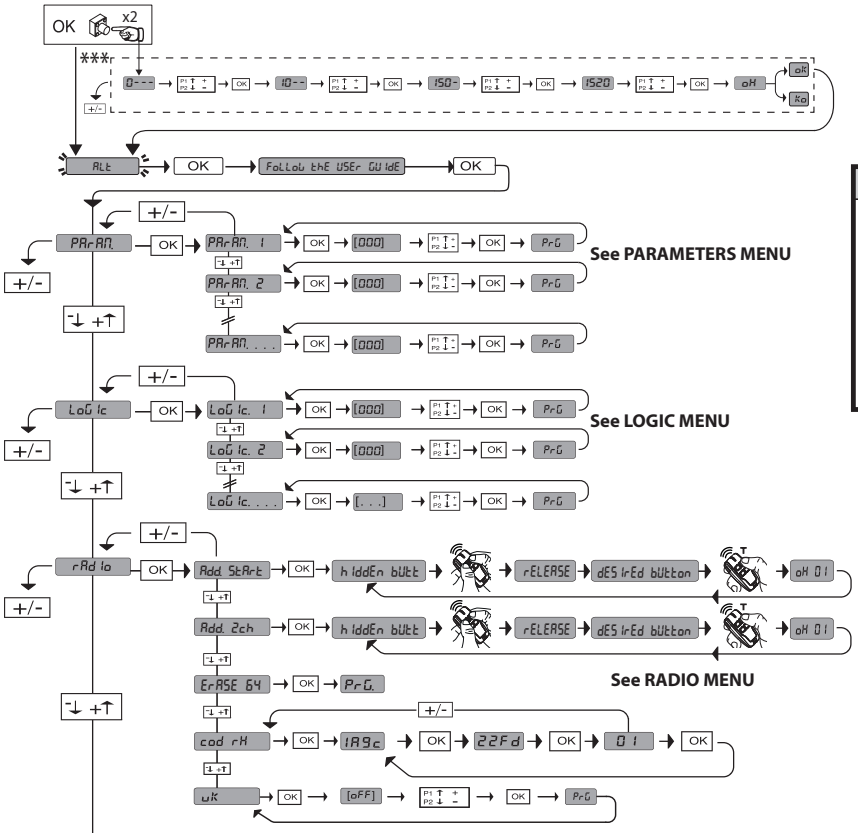


BAR 8K2 — SAFE 2 = 8

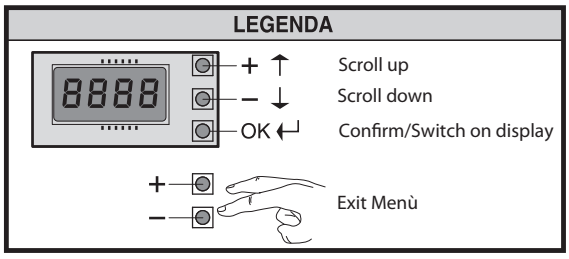


Numero massimo di dispositivi verifcati: 6 (ma non più di 4 per tipo),
Maximum number of tested devices: 6 (but no more than 4 per type),
Nombre maximum dispositif vérifés: 6 (mais pas plus de 4 par type),
Max. Anzahl der überprüften Geräte: 6 (jedoch nicht mehr als 4 je Typ),
Número máximo dispositivos comprobados: 6 (pero no más de 4 por tipo),
Maximumaantal "trusted devices": 6 (maar niet meer dan 4 per type)

ACCESS MENUS Fig. 2



***** Password entry.**
Request with Protection Level logic set to 1, 2, 3, 4



ENGLISH

Diagnostics code	DESCRIPTION	NOTES
StrE	START E external start input activated	
Str I	START I internal start input activated	
oPEn	OPEN input activated	
cLS	CLOSE input activated	
t IME	TIMER input activated	
StoP	STOP input activated	
Phot	Activation of PHOT photocell input or, if configured as verified photocell, Activation of the associated FAULT input	
PhoP	Activation of PHOT OP opening photocell input or, if configured as active verified photocell only when opening, Activation of the associated FAULT input	
PhcL	Activation of PHOT CL closing photocell input or, if configured as active verified photocell only when closing, Activation of the associated FAULT input	
bAr	Activation of BAR safety edge input or, if configured as verified safety edge, Activation of the associated FAULT input	
bAr 2	Activation of BAR safety edge input on slave motor (opposing door connection) or, if configured as verified safety edge, Activation of the associated FAULT input	
Suc	SWC motor closing limit switch input activated	
Suo	SWO motor opening limit switch input activated	
rEFo	Enabling input reference opening	
rEFc	Enabling input reference closing	
Er01	Photocell test failed	Check photocell connection and/or logic settings
Er02	Safety edge test failed	Check safety edge connection and/or logic settings
Er03	Opening photocell test failed	Check photocell connection and/or parameter/logic setting
Er04	Closing photocell test failed	Check photocell connection and/or parameter/logic setting
Er05	Safety edge test on slave motor failed (opposite leaves connection)	Check safety edge connection and/or parameter/ logic settings
Er06	8k2 safety edge test failed	Check safety edge connection and/or parameter/ logic settings
Er iH*	Board hardware test error	-Check connections to motor -Hardware problems with board (contact technical assistance)
Er2H**	Encoder error	Check the cable, the encoder card and the motor direction (if necessary) and reset the card
Er3H*	Reverse due to obstacle - Amperostop	Check for obstacles in path
Er4H*	Thermal cutout	Allow automated device to cool
Er5H*	Communication error with remote devices	Check connection with serial-connected accessory devices and/or expansion boards
Er10, Er11 Er14, Er15	Internal system supervision control error.	Try switching the board off and back on again. If the problem persists, contact the technical assistance department.
Er12	Consistency error of the control unit's parameters (Logics and Parameters)	Pressing OK the detected settings are confirmed. The board will keep on working with the detected settings. ⚠ The board settings must be checked (Parameters and Logics)
Er13	D-track parameter error	Pressing OK, the board will keep on working with D-track as a default. ⚠An autoset is required
ErFH*	limit switch error	Check limit switch connections
ErF3	Error in setting the SAFE inputs	Check if the SAFE inputs are correctly set; during the operation of opposed barriers, SAFE2 must be set up as safety edge. Fig. L

* H = 0,1,…,9,A,B,C,D,E,F

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2) GENERAL OUTLINE

Compact electromechanical barrier suitable for limiting private areas, parkings, access areas for vehicles only. Available for passageways from 3 to 6 metres. Adjustable electronic limit switches, they guarantee correct boom stopping position.
The emergency release device for manual manoeuvre is controlled by a personalised key lock.
The actuator is always supplied for left-hand side fitting. However, when necessary, the opening direction can be reversed by means of simple operations.
The CBO mod. foundation base (on request) makes barrier installation easier.Appropriate fittings make it easy to install accessories.
The **MERAK BG - MERAK BG S** control panel is supplied by the manufacturer with standard setting. Any change must be set by means of the incorporated display or by means of the universal programmer.
Fully supports EELINK and U-LINK protocols.
Its main features are:
- Control of 1 low-voltage motor
- Obstacle detection
- Separate inputs for safety devices
- Configurable command inputs
- Built-in radio receiver rolling code with transmitter cloning.

The board has a terminal strip of the removable kind to make maintenance or replacement easier. It comes with a series of prewired jumpers to make the installer's job on site easier. The jumpers concern terminals: 70-71, 70-72, 70-74. If the above-mentioned terminals are being used, remove the relevant jumpers.

3) TECHNICAL SPECIFICATIONS

MOTOR	
Power supply	110-120V 50/60Hz 220-230V 50/60 Hz(*)
Power absorbed	300W (GIOTTO BT A 30S U / GIOTTO BT A 60S U)
	250W (GIOTTO BT A 30 U/GIOTTO BT A 60 U)
Internal lubrication	permanent grease
Max torque	280 Nm (GIOTTO BT A 30S U)
	380 Nm (GIOTTO BT A 60S U)
	250 Nm (GIOTTO BT A 30 U)
	350 Nm (GIOTTO BT A 60 U)
Impact reaction	Electronic torque limiter
Opening time	2,5s (GIOTTO BT A 30S U)
	4s (GIOTTO BT A 60S U / (GIOTTO BT A 30 U)
	5s (GIOTTO BT A 60 U)
Boom length	3 m (GIOTTO BT A 30S U/ GIOTTO BT A 30 U)
	6 m (GIOTTO BT A 60S U/ GIOTTO BT A 60 U)
Manual mechanical release	customised key
Type of boom	rectangular
Limit devices	electrical incorporated and electronically adjustable
Type of use	intensive (GIOTTO BT A 30S U/ GIOTTO BT A 60S U)
	semi intensive (GIOTTO BT A 30 U/ GIOTTO BT A 60 U)
Buffer batteries (optional extras)	Two 12V 1.2Ah batteries
Environmental conditions	from -20°C to +55°C
Degree of protection	IP 54
Noise level	<70dBA
Operator weight (without boom)	41 Kg (GIOTTO BT A 30S U / (GIOTTO BT A 60 U)
	42 Kg (GIOTTO BT A 60S U)
	40 Kg (GIOTTO BT A 30 U)
Dimensions	see fig. A
CONTROL UNIT	
Mains/low voltage insulation	> 2MOhm 500V⎓
Dielectric strength	mains/low voltage 3750V~ for 1 minute
Thermal overload protection	Software
Supply to accessories	24V~ (demand max. 0,5A) 24V~ safe
AUX 0	NO 24V ~powered contact (max.1A)
AUX 3	N.O. Contact (24V~ /1A max)
Fuses	see Fig. G
N° of combinations	4 billion
Built-in Rolling-Code radio-receiver	frequency 433.92MHz
Max. n° of remotes that can be memorized	63
Setting of parameters and options	Universal handheld programmer/LCD display

(*)= special power supply voltages on request.

Usable transmitter versions:
All ROLLING CODE transmitters compatible with: ((ER-Ready))

4.1) FOUNDATION PLATE (Fig. B1).
4.2) FASTENING ANCHOR BOLTS (Fig. B2).

5) FITTING OF THE ACTUATOR

⚠ WARNING! The barrier must be exclusively used for vehicles to drive through. Pedestrians must not walk within the operator manoeuvring area. An appropriate pedestrian passageway must be provided for.
The passageway must be suitably indicated by means of the warning signs illustrated in Fig.A.
WARNING: before opening the door, the spring must be unloaded (vertical boom). The door of the box must be facing towards the inside of the property. When you stand in the middle of the passageway, facing outwards, if the box is on your left, the barrier is left-hand fitted, if the box is on your right, the barrier is right-hand fitted.
The actuator is always supplied for left-hand side fitting.

6) Right-hand fitting (Fig. A, B, C, D).

7) Left-hand fitting (Fig. AA)

- Carry out bar balancing.
- Set the Direction Reversal logic to ON in the control panel.

⚠ Warning: the Direction Reversal logic must be configured to OFF for left-hand fitted barriers, and to ON for right-hand fitted barriers. Otherwise, the limit devices will not operate or an encoder direction error will be displayed.

8) BAR BALANCING (Fig. E).

9) Accessories: boom length limits and balancing (Fig. F).

For further information about the installation and use of accessories, refer to the respective instruction manuals.

10) FITTING THE FLASHING LIGHT (FIG.AB)

Complete assembly and wiring as directed in instructions provided for the flashing light

11) FITTING THE PHOTOCELL (FIG. AC).

Complete assembly as directed in instructions provided for the photocell

12) ELECTRICAL INSTALLATION SET-UP

WARNING: before opening the door, the spring must be unloaded (vertical boom). Set up the electrical installation (fig. A) with reference to the current regulations for electrical installations. Keep the mains power supply con-nections definitely separate from the service connections (photocells, electric edges, control devices etc.).
Fig. A shows the number of connections and section for a 100m length of power supply cables; for greater lengths, calculate the section for the true automation load. When the auxiliary connections exceed 50 metre lengths or go through critical disturbance areas, it is recommended to decouple the control and safety devices by means of suitable relays.
The main automation components are (fig. A):

I) Type-approved adequately rated omnipolar circuit-breaker with at least 3,5 mm contact opening, provided with protection against overloads and short circuits, suitable for cutting out automation from the mains. Place, if not al ready installed, a type-approved differential switch with a 0.03A threshold just before the automation system.
QR) Control panel and incorporated receiver.
S) Key selector.
AL) Blinker
M) Actuators.
A) Bar.
F) Rest fork.
CS) Electric edge.
Ft,Fr) Pair of photocells.
CF) Photocell post.
T) 1-2-4 channel transmitter.
RMM) Inductive metal mass detector **(Fig. C1)**.
LOOP) Mass detector loops.

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 1mm 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 far enough away from dissipaters.

13) CONNECTION (Fig. G)

Once suitable electric cables have been run through the raceways and the automated device's various components have been fastened at the predetermined points, the next step is to connect them as directed and illustrated in the diagrams contained in the relevant instruction manuals. Connect the live, neutral and earth wire (compulsory). The mains cable must be clamped in the relevant cable gland, and the accessories' wires in the cable gland, while the earth wire with the yellow/green-coloured sheath must be connected in the relevant terminal.

INSTALLATION MANUAL

WARNING: The electrical connections must be carried out workmanlike by qualified experienced personnel, in conformity with all the current standards and with the use of appropriate materials.
Lay out the electrical installation with reference to the current electrical standards.
Keep the mains supply connections clearly separated from the service connections.
In the initial section of the electrical installation, fit a circuit breaker with a contact opening distance equal to or greater than 3,5 mm, provided with magnetothermal protection and a differential switch having adequate capacity for the appliance consumption. For the wiring, only use cables conforming to the harmonised or national standards, having a cross section corresponding to the initial protection, the appliance consumption and the installation conditions, for example a 3x1.5 sq mm (H 05 VV-F) cable.

	Terminal	Definition	Description
Power supply	L	LINE	Single-phase power supply 220-230V ~50/60 Hz*
	N	NEUTRAL	
	JP31	TRANSF PRIM	Transformer primary winding connection, 220-230V ~.
	JP32		
	JP13	TRANSF SEC	Board power supply: 24V~ Transformer secondary winding
Motor	10	MOT +	Connection motor 1
	11	MOT -	
Aux	20	AUX 0 - 24V POWERED CONTACT (N.O.) (MAX. 1A)	AUX 0 configurable output - Default setting FLASHING LIGHT. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE/ BARRIER STATUS OUTPUT. Refer to "AUX output configuration" table.
	21		
	26	AUX 3 - FREE CONTACT (N.O.) (Max. 24V 1A)	AUX 3 configurable output - Default setting 2ND RADIO CHANNEL Output. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE/ BARRIER STATUS OUTPUT. Refer to "AUX output configuration" table.
	27		
Limit switches	41	+ REF RIF	Common references
	42	RIFC	Reference closing RIFC (N.C.)
	43	RIFO	Reference opening RIFO (N.C.)
Accessories power supply	50	24V-	Accessories power supply output.
	51	24V+	
	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.
Commands	60	Common	IC 1 and IC 2 inputs common
	61	IC 1	Configurable command input 1 (N.O.) - Default OPEN. START E / START I / OPEN / CLOSE / TIMER / OPEN Refer to the "Command input configuration" table.
	62	IC 2	Configurable command input 2 (N.O.) - Default CLOSE. START E / START I / OPEN / CLOSE / TIMER / OPEN Refer to the "Command input configuration" table.
Safety devices	70	Common	STOP, SAFE 1 and SAFE 2 inputs common
	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.
	72	SAFE 1	Configurable safety input 1 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 Refer to the "Safety input configuration" table.
	73	FAULT 1	Test input for safety devices connected to SAFE 1.
	74	SAFE 2	Configurable safety input 2 (N.C.) - Default BAR. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 Refer to the "Safety input configuration" table.
	75	FAULT 2	Test input for safety devices connected to SAFE 2.
Antenna	Y	ANTENNA	Antenna input. Use an antenna tuned to 433MHz. Use RG58 coax cable to connect the Antenna and Receiver. Metal bodies close to the antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.
	#	SHIELD	

AUX output configuration
Aux logic= 0 - 2ND RADIO CHANNEL output. Contact stays closed for 1s when 2nd radio channel is activated.
Aux logic= 1 - SCA GATE OPEN LIGHToutput. Contact stays closed during opening and with leaf open, intermittent during closing, open with leaf closed.
Aux logic= 2 - COURTESY LIGHT command output. Contact stays on for 90 seconds after the last operation.
Aux logic= 3 - ZONE LIGHT command output. Contact stays closed for the full duration of operation.
Aux logic= 4 - STAIR LIGHT output. Contact stays closed for 1 second at start of operation.

aUX Logic= 5 - OPEN GATE ALARM output. The contact remains closed if the door stays open for longer than the "ALArM t IME" parameter. O for Obstacle detected
Aux logic= 6 - FLASHING LIGHT output. Contact stays closed while leaves are operating.
Aux logic= 7 - SOLENOID LATCH output. Contact stays closed for 2 seconds each time gate is opened.
Aux logic= 8 - MAGNETIC LOCK output. Contact stays closed while gate is closed.
Aux logic= 9 - MAINTENANCE output. Contact stays closed once the value set for the Maintenance parameter is reached, to report that maintenance is required.
Aux logic= 10 - FLASHING LIGHT AND MAINTENANCE output. Contact stays closed while leaves are operating. If the value set for the Maintenance parameter is reached, once the gate has finished moving and the leaf is closed, the contact closes for 10 sec. and opens for 5 sec. 4 times to report that maintenance is required.
Aux Logic=11 Not available
Aux Logic=12 – barrier status output: the contact stays closed when the barrier is totally closed.

Command input configuration
IC logic= 0 - Input configured as Start E. Operation according to StEP-bY-StEP Pou. logic. External start for traffic light control.
IC logic= 1 - Input configured as Start I. Operation according to StEP-bY-StEP Pou. logic. Internal start for traffic light control.
IC logic= 2 - Input configured as Open. The command causes the leaves to open. If the input stays closed, the leaves stay open until the contact is opened. When the contact is open, the automated device closes following the TCA time, where activated.
IC logic= 3 - Input configured as Closed. The command causes the leaves to close.
IC logic= 4 - Not available
IC logic= 5 - Input configured as Timer. Operation same as open except closing is guaranteed even after a mains power outage.
Safety input configuration
SAFE logic= 0 - Input configured as Phot (photocell) non tested . (fig.N, ref.1). Enables connection of devices not equipped with supplementary test contacts. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared. If not used, leave jumper inserted.
SAFE logic= 1 - Input configured as Phot test (tested photocell). (fig.N, ref.2). Switches photocell testing on at start of operation. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared.
SAFE logic= 2 - Input configured as Phot op (photocell active during opening only) non tested . (fig.N, ref.1). Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken. If not used, leave jumper inserted.
SAFE logic= 3 - Input configured as Phot op test (tested photocell active during opening only (fig.N, ref.2). Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.
SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) non tested . (fig.N, ref.1). Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately. If not used, leave jumper inserted.
SAFE logic= 5 - Input configured as Phot cl test (tested photocell active during closing only (fig.N ref.2). Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately.
SAFE logic= 6 - Input configured as Bar (safety edge) non tested . (fig.N, ref.3). Enables connection of devices not equipped with supplementary test contacts. The command reverses movement for 2 sec.. If not used, leave jumper inserted.
SAFE logic= 7 - Input configured as Bar (tested safety edge (fig.N, ref.4). Switches safety edge testing on at start of operation. The command reverses movement for 2 sec.
SAFE logic= 8 - Input configured as Bar 8k2 (fig.N, ref.5). Input for resistive edge 8K2. The command reverses movement for 2 sec.

***) If "D" type devices are installed (as defined by EN12453), connect in unverified mode, foresee mandatory maintenance at least every six months.**

14) LIMIT SWITCH SETTING

WARNING: before opening the door, the spring must be unloaded (vertical boom). The barrier is provided with programmable electronic limit switches and mechanical stop devices. There must be a rotation margin (about 1°) on closing and opening between the electrical limit switches and mechanical stop devices (Fig. j). The adjustment is carried out as follows:

The end-of-stroke opening and closing positions must be set by modifying the parameters of the control panel for Opening value Calibration and Closing value Calibration: if the value is increased, the end-of-stroke positions move towards the opening direction. The extent of the movement depends on the effective boom length: in the case of a 6-m boom, a unit change (1.0) entails a movement of about 4,4 cm which, proportionally, becomes about 5,8 cm for an 8-m boom.

The effective closing value also depends, in part, on the manoeuvring speed. It is therefore convenient to proceed to end-of-stroke calibration only after having set the other opening parameters.

To evaluate correctly the values set, you are advised to carry out a few complete consecutive manoeuvres.

15) EMERGENCY RELEASE (Fig. E)

WARNING! When an actuator without bar needs to be released, ensure that the balancing spring is not compressed (bar in the opening position).

15.1) LOCAL COMMANDS Fig.G

While the display is off, pressing the + key commands the gate to Open and pressing the - key commands it to Close. Pressing either key again while the automated device is moving commands the gate to STOP.

16) SAFETY DEVICES

Note: only use receiving safety devices with free changeover contact.

16.1) TESTED DEVICES Fig.N

16.2) CONNECTION OF 1 PAIR OF NON-TESTED PHOTOCELLS FIG. G1

17) ACCESS TO THE SIMPLIFIED MENU: FIG.1

17.1) CALLING UP MENUS: FIG. 2

17.2) PARAMETERS MENU (PArAM) (PARAMETERS TABLE "A")

17.3) LOGIC MENU (Lou Ic) (LOGIC TABLE "B")

17.4) RADIO MENU (rAd Io) (RADIO TABLE "C")

- **IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (MASTER).**

In the event of manual programming, the first transmitter assigns the RECEIVER'S KEY CODE: this code is required to subsequently clone the radio transmitters.

The Clonix built-in on-board receiver also has a number of important advanced features:

- Cloning of master transmitter (rolling code or fixed code).
- Cloning to replace transmitters already entered in receiver.
- Transmitter database management.
- Receiver community management.

To use these advanced features, refer to the universal handheld programmer's instructions and to the general receiver programming guide.

17.5) DEFAULT MENU (dEFAULt)

Restores the controller's DEFAULT factory settings.

17.6) LANGUAGE MENU (LAnGUAGE)

Used to set the programmer's language on the display.

17.7) STATISTICS MENU (StAt)

Used to view the version of the board, the total number of operations (in hundreds), the number of transmitters memorized and the last 30 errors (the first 2 digits indicate the position, the last 2 give the error code). Error 01 is the most recent.

17.8) PASSWORD MENU (PASSword)

Used to set a password for the board's wireless programming via the U-link network. With "PROTECTION LEVEL" logic set to 1,2,3,4, the password is required to access the programming menus. After 10 consecutive failed attempts to log in, you will need to wait 3 minutes before trying again. During this time, whenever an attempt is made to log in, the display will read "BLOC". The default password is 1234.

18) CONNECTION WITH EXPANSION BOARDS AND UNIVERSAL HANDHELD PROGRAMMER VERSION> V1.40 (Fig. K) Refer to specific manual.

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

19) U-LINK OPTIONAL MODULES

Refer to the U-link instructions for the modules.

20) Opposite Barriers (Fig. L)

Refer to the U-link instructions for the modules.
NOTE: On the board set as the Slave, the Safety Edge input (Safety Edge/ Test Safety Edge/ 8k2 Safety Edge) should only be set to SAFE2.

21) RESTORING FACTORY SETTINGS (Fig.M)

WARNING: this operation will restore the control unit's factory settings and all transmitters stored in its memory will be deleted.
WARNING! Incorrect settings can result in damage to property and injury to people and animals.
- Cut off power to the board (Fig.M ref.1)
- Open the Stop input and press the - and OK keys together (Fig.M ref.2)
- Switch on the board's power (Fig.M ref.3)
- The display will read RST; confirm within 3 sec. by pressing the OK key (Fig.O ref.4)
- Wait for the procedure to finish (Fig.M ref.5)
- Procedure finished (Fig.M ref.6)

22) PARKING MANAGEMENT SYSTEM CONNECTION

The board has an output for the control of the barrier status configured this way (Fig. G4).
The logic must be set to AUX3/AUX0=12.
closed contact between terminals **26-27** with the barrier **lowered**
open contact between terminals **26-27** with the barrier **not lowered.**

ENGLISH

TABLE "A" - PARAMETERS MENU - (PArAM)

Parameter	min.	max.	Default	Personal	Definition	Description
tcA	0	180	10		**Automatic closing time [s]**	Waiting time before automatic closing.
trF.LGht.cLrt	1	180	40		**Time-to-clear traffic light zone [s]**	Time-to-clear for the zone run through by traffic controlled by the traffic light.
ALArM t IME	0	240	30		**Alarm time** [s]	If an obstacle is sensed or the photocells are engaged for longer than the set time, the AUX contact configured as OPEN GATE ALARM output closes. The contact is then opened by the Stop command or by the closing limit switch.
oPEn.cAL Ib. (Special par. 1)***	0	100	75		**Opening value calibration**	Opening value calibration [%] Set the reference value from 0,0 to 100,0 for the required opening position (see Paragraph Limit Switch Setting).
cLoS.cAL Ib. (Special par. 6)***	0	100	25		**Closing value calibration**	Closing value calibration [%] Set the reference value from 0,0 to 100,0 for the required closing position (see Paragraph Limit Switch Setting).
AccEL. (Special par. 6)***	1	10	3		**Acceleration**	Acceleration [%] Set the acceleration to be applied at the beginning of each movement.
d ISt.dEcEL	0	99	70		**Deceleration distance [%]**	Deceleration distance (switch from running speed to slow-down speed) for motor(s) both during opening and during closing, given as a percentage of total travel.
oP.ForcE	40	99	75		**Leaf force during opening [%]**	Force exerted by the barrier while opening. **WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary (**).**
cLS.ForcE	40	99	70		**Leaf force during closing [%]**	Force exerted by the barrier while closing. **WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary (**).**
brAKE	1	10	2		**Braking [%]**	Braking [%] Set braking to be applied during slow-down phase.
oP. SPEEd	15	99	99		**Speed during opening**	Running speed during opening [%] Sets the running speed that the barrier must reach during opening, as a percentage of the maximum speed the actuator can reach.
cL SPEEd	15	99	99		**Speed during closing**	Running speed during closing [%] Sets the running speed that the barrier must reach during closing, as a percentage of the maximum speed the actuator can reach.
MA IntEnAncE	0	250	0		**Programming number of operations for maintenance threshold [in hundreds]**	Allows you to set a number of operations after which the need for maintenance will be reported on the AUX output configured as Maintenance or Flashing Light and Maintenance .

(*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method.
(**) Impact forces can be reduced by using deformable edges.
(***)=Reference for universal handheld programmer.

TABLE "B" - LOGIC - (LoGI Ic)

Logic	Definition	Default		Cross out setting used	Optional extras
tcA	**Automatic Closing Time**	1		0	Logic not enabled
				1	Switches automatic closing on

Logic	Definition	Default		Cross out setting used	Optional extras
FASt cLS.	**Fast closing**	0		0	Logic not enabled
				1	Closes 1 second after the photocells are cleared before waiting for the set TCA to elapse.
StEP-by-StEP MouEMnt	**Step-by-step movement**	1		0	Inputs configured as Start E, Start I, Ped operate with 4-step logic.
				1	Inputs configured as Start E, Start I, Ped operate with 3-step logic. Pulse during closing reverses movement.
				2	Inputs configured as Start E, Start I, Ped operate with 2-step logic. Movement reverses with each pulse.
PrE-ALArM	**Pre-alarm**	0		0	The flashing light comes on at the same time as the motor(s) start.
				1	The flashing light comes on approx. 3 seconds before the motor(s) start.
hoLd-to-rUn	**Deadman**	0		0	Pulse operation.
				1	Deadman mode. Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP. Operation continues as long as the OPEN UP or CLOSE UP keys are held down. ⚠ **WARNING: safety devices are not enabled.**
				2	Emergency Deadman mode. Usually pulse operation. If the board fails the safety device tests (photocell or safety edge, Er0x) 3 times in a row, Deadman mode is enabled which will stay active for 1 minute after the OPEN UP - CLOSE UP keys are released. Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP. ⚠ **WARNING: with the device set to Emergency Deadman mode, safety devices are not enabled.**
ibL oPEn	**Block pulses during opening**	1		0	Pulse from inputs configured as Start E, Start I has effect during opening.
				1	Pulse from inputs configured as Start E, Start I has no effect during opening.
* ibL tcA	**Block pulses during TCA**	0		0	Pulse from inputs configured as Start E, Start I has effect during TCA pause.
				1	Pulse from inputs configured as Start E, Start I has no effect during TCA pause.
ibL cLoSE	**Block pulses during closing**	0		0	Pulse from inputs configured as Start E, Start I has effect during closing.
				1	Pulse from inputs configured as Start E, Start I has no effect during closing.
oPEn in othEr dirEct.	**Open in other direction**	0		0	Standard operating mode (left barrier).
				1	Opens in other direction to standard operating mode (right barrier).
SAFE 1	**Configuration of safety input SAFE 1. 72**	0		0	Input configured as Phot (photocell).
				1	Input configured as Phot test (tested photocell).
				2	Input configured as Phot op (photocell active during opening only).
				3	Input configured as Phot op test (tested photocell active during opening only).
SAFE 2	**Configuration of safety input SAFE 2. 74**	6		4	Input configured as Phot cl (photocell active during closing only).
				5	Input configured as Phot cl test (tested photocell active during closing only).
				6	Input configured as Bar, safety edge.
				7	Input configured as Bar, tested safety edge.
				8	Input configured as Bar 8k2.
Ic 1	**Configuration of command input IC 1. 61**	2		0	Input configured as Start E.
				1	Input configured as Start I.
				2	Input configured as Open.
				3	Input configured as Close.
Ic 2	**Configuration of command input IC 2. 62**	3		4	Input configured as Ped.
				5	Input configured as Timer.

step-by-step mov.

	2 STEP	3 STEP	4 STEP
CLOSED	OPENS	OPENS	OPENS
DURING CLOSING			STOPS
OPEN	CLOSES	CLOSES	CLOSES
DURING OPENING		STOP + TCA	STOP + TCA
AFTER STOP	OPENS	OPENS	OPENS

Logic	Definition	Default		Cross out setting used	Optional extras
AUX 0	**Configuration of AUX 0 output. 20-21**	6		0	Output configured as 2nd Radio Channel.
				1	Output configured as SCA (gate open light).
				2	Output configured as Courtesy Light command.
				3	Output configured as Zone Light command.
				4	Output configured as Stair Light
				5	Output configured as Alarm
				6	Output configured as Flashing light
AUX 3	**Configuration of AUX 3 output. 26-37**	0		7	Output configured as Latch
				8	Output configured as Magnetic lock
				9	Output configured as Maintenance
				10	Output configured as Flashing Light and Maintenance.
				11	Not available
				12	output configured as barrier status
FIXEd codE	**Fixed code**	0		0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.
				1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.
ProtEct Ion LEvEL	**Setting the protection level**	0		0	A - The password is not required to access the programming menus B - Enables wireless memorizing of transmitters. Operations in this mode are carried out near the control panel and do not require access: - Press in sequence the hidden key and normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the radio menu. - Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized. The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step. C - Enables wireless automatic addition of clones. Enables clones generated with the universal programmer and programmed Replays to be added to the receiver's memory. D - Enables wireless automatic addition of replays. Enables programmed Replays to be added to the receiver's memory. E - The board's parameters can be edited via the U-link network
				1	A - You are prompted to enter the password to access the programming menus The default password is 1234. No change in behaviour of functions B - C - D - E from 0 logic setting
				2	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. No change in behaviour of functions D - E from 0 logic setting
				3	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. D - Wireless automatic addition of Replays is disabled. No change in behaviour of functions C - E from 0 logic setting
				4	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. D - Wireless automatic addition of Replays is disabled. E - The option of editing the board's parameters via the U-link network is disabled. Transmitters are memorized only using the relevant Radio menu. IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.
SEr IAL ModE	**Serial mode** (Identifies how board is configured in a BFT network connection).	0		0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.
				1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.
				2	SLAVE opposite leaves in local network : the control unit is the slave in an opposite leaves network with no smart module (fig.L)
				3	MASTER opposite leaves in local network: the control unit is the master in an opposite leaves network with no smart module (fig.L)
AddrESS	**Address**	0		[____]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)

ENGLISH

Logic	Definition	Default		Cross out setting used	Optional extras
EHP 11	**Configuration of EXPI1 input on input-output expansion board. 1-2**	1		0	Input configured as Start E command.
				1	Input configured as Start I command.
				2	Input configured as Open command.
				3	Input configured as Close command.
				4	Input configured as Timer command
				5	Input configured as Timer command.
				6	Input configured as Timer Pedestrian command
				7	Input configured as Phot (photocell) safety.
				8	Input configured as Phot op safety (photocell active during opening only).
				9	Input configured as Phot cl safety (photocell active during closing only).
				10	Input configured as Bar safety (safety edge).
				11	Input configured as Phot test safety (tested photocell). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
				12	Input configured as Phot op test safety (tested photocell active during opening only). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
				13	Input configured as Phot cl test safety (tested photocell active during closing only). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
				14	Input configured as Bar safety (tested safety edge). Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
EHP 12	**Configuration of EXPI2 input on input-output expansion board. 1-3**	0		0	Input configured as Start E command.
				1	Input configured as Start I command.
				2	Input configured as Open command.
				3	Input configured as Close command.
				4	Input configured as Timer command
				5	Input configured as Timer command.
				6	Input configured as Timer Pedestrian command
				7	Input configured as Phot (photocell) safety.
				8	Input configured as Phot op safety (photocell active during opening only).
				9	Input configured as Phot cl safety (photocell active during closing only).
				10	Input configured as Bar safety (safety edge).
EHPo1	**Configuration of EXPO2 output on input-output expansion board 4-5**	11		0	Output configured as 2nd Radio Channel.
				1	Output configured as SCA (gate open light).
				2	Output configured as Courtesy Light command.
				3	Output configured as Zone Light command.
				4	Output configured as Stair Light.
				5	Output configured as Alarm.
EHPo2	**Configuration of EXPO2 output on input-output expansion board 6-7**	11		6	Output configured as Flashing light.
				7	Output configured as Latch.
				8	Output configured as Magnetic lock.
				9	Output configured as Maintenance.
				10	Output configured as Flashing Light and Maintenance.
				11	Output configured as Traffic Light control with TLB board.
				12	output configured as barrier status
trAFF ic L IGht PrEFLASh inG	**Traffic light pre-flashing**	0		0	Pre-flashing switched off.
				1	Red lights flash, for 3 seconds, at start of operation.
trAFF ic L IGht rEd LAMP ALWAYS on	**Steadily lit red light**	0		0	Red lights off when gate closed.
				1	Red lights on when gate closed.

TABLE "C" – RADIO MENU (rAd io)

Logic	Description
Add StArt	**Add Start Key** associates the desired key with the Start command
Add 2ch	**Add 2ch Key** associates the desired key with the 2nd radio channel command.
ErASE 64	**Erase List** ⚠ **WARNING!** Erases all memorized transmitters from the receiver's memory.
cod rH	**Read receiver code** Displays receiver code required for cloning transmitters.
uK	**ON =** Enables remote programming of cards via a previously memorized W LINK transmitter. It remains enabled for 3 minutes from the time the W LINK transmitter is last pressed. **OFF=** W LINK programming disabled.