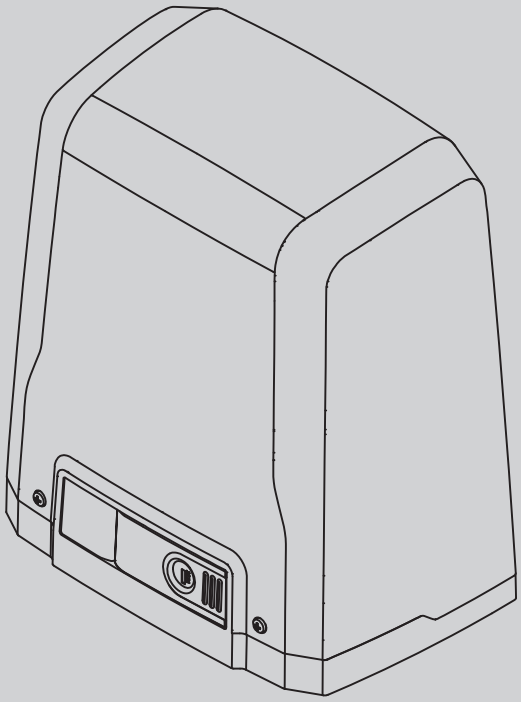
8 027908 433015

Ultra

D811980 00100_13 27-04-21

ATTUATORE PER CANCELLI SCORREVOLI A CREMAGLIERA
ACTUATOR FOR RACK SLIDING GATES
ACTIONNEUR POUR PORTAILS COULISSANTS A CREMAILLERE
ANTRIEB FÜR ZAHNSTANGEN-SCHIEBETORE
SERVOMOTOR PARA CANCELAS CORREDERAS DE CREMALLERA
ACTUATOR VOOR SCHUIFHEKKEN MET TANDHEUGEL



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
INSTALLATIEVOORSCHRIFTEN

DEIMOS ULTRA BT A 400
DEIMOS ULTRA BT A 600

BFT

U-LINK

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

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!

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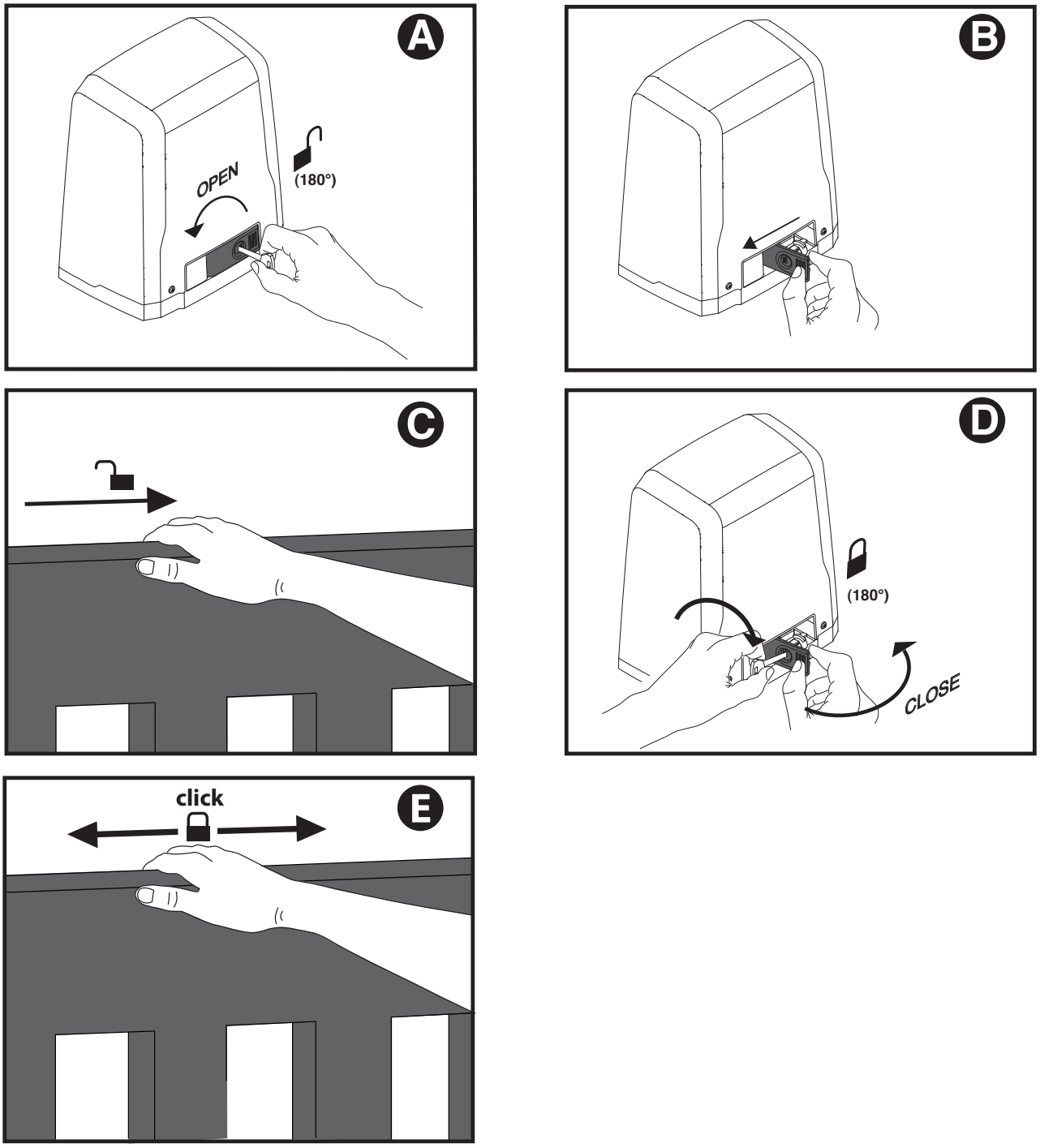
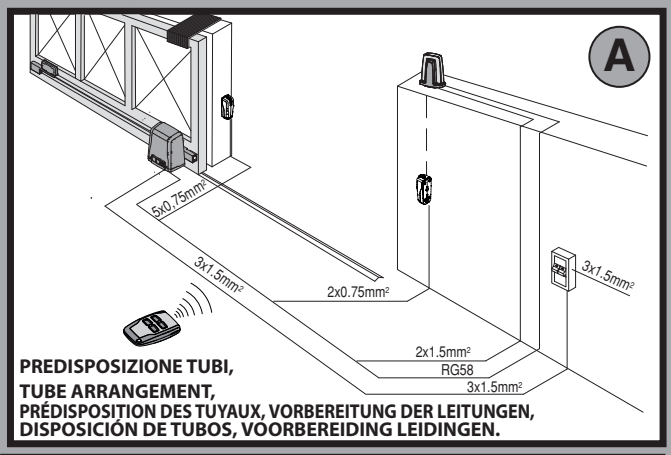
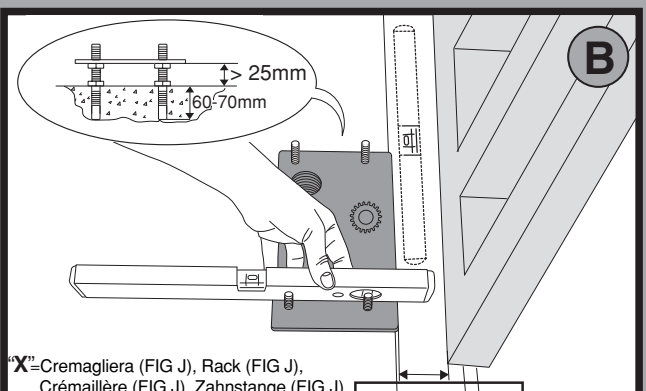
FIG. 3



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



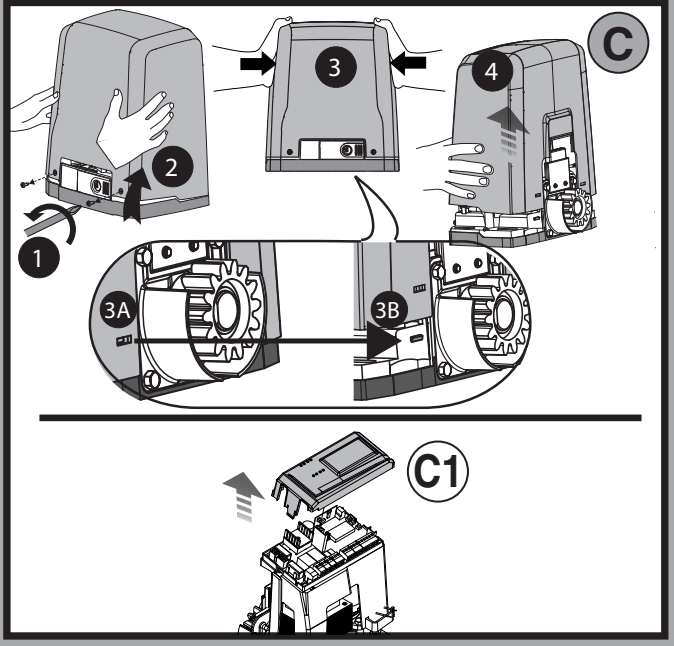
PREDISPOSIZIONE TUBI,
TUBE ARRANGEMENT,
PRÉDISPOSITION DES TUYAUX, VORBEREITUNG DER LEITUNGEN,
DISPOSICIÓN DE TUBOS, VOORBEREIDING LEIDINGEN.

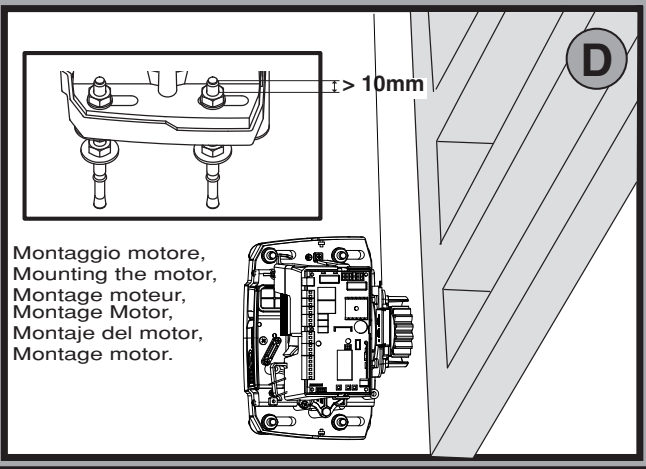


"**X**"=Cremagliera (FIG J), Rack (FIG J),
Crémaillère (FIG J), Zahnstange (FIG J),
Cremallera (FIG J), Tandheugel (FIG J)

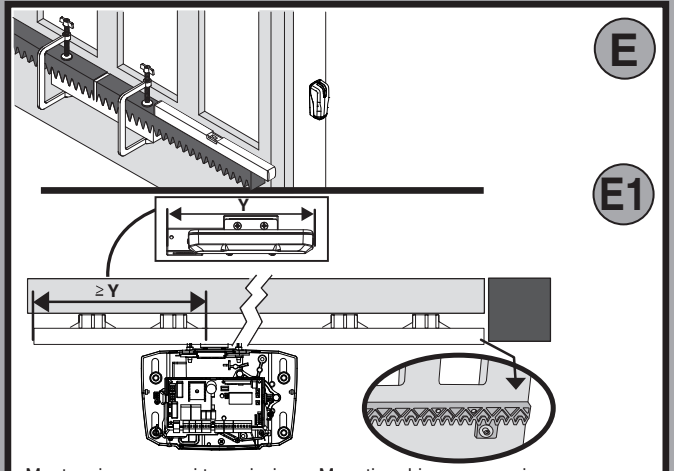
17mm + "**X**"

Predisposizione fissaggio motore, Preparation for motor mounting,
Aménagement fixation moteur, Vorbereitung Motorbefestigung,
Disposición fijación del motor, Voorbereiding bevestiging motor.

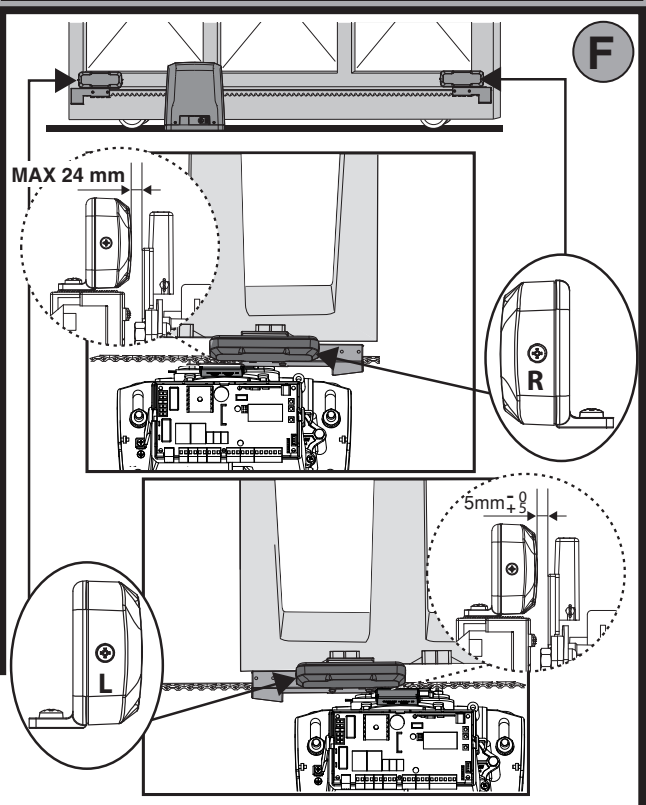


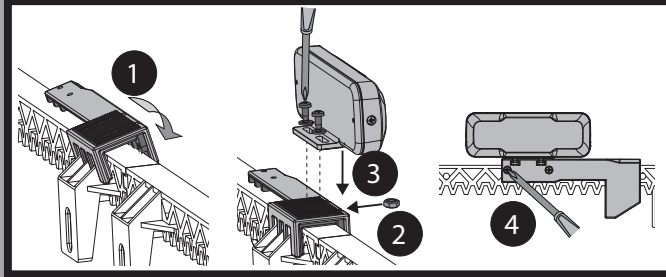


Montaggio motore,
Mounting the motor,
Montage moteur,
Montage Motor,
Montaje del motor,
Montage motor.



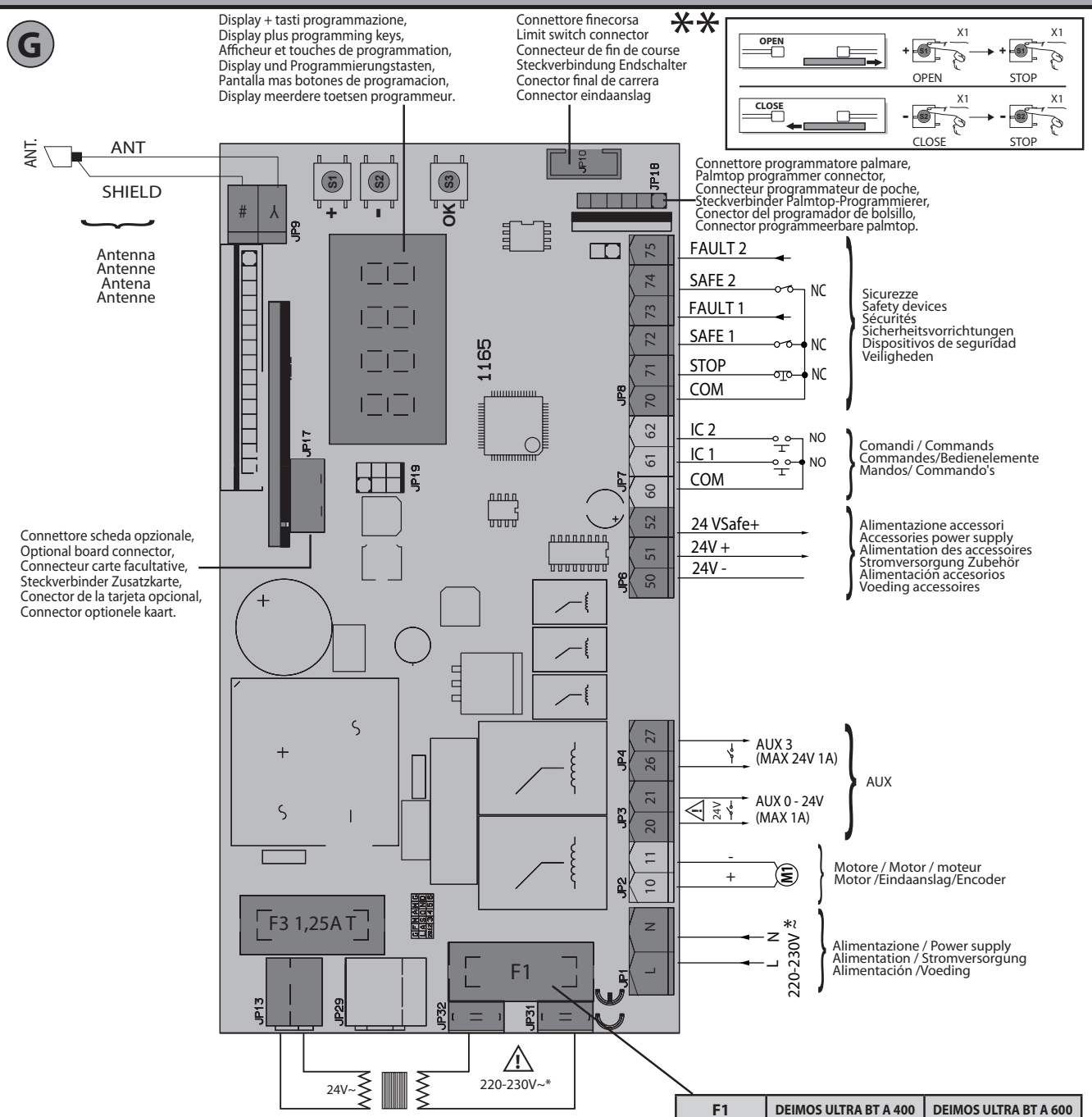
Montaggio accessori trasmissione, Mounting drive accessories,
Montage accessoires transmission, Montage Antriebszubehör,
Montaje de accesorios transmisión, Montage accessoires overbrenging.



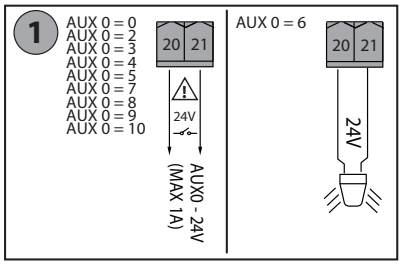


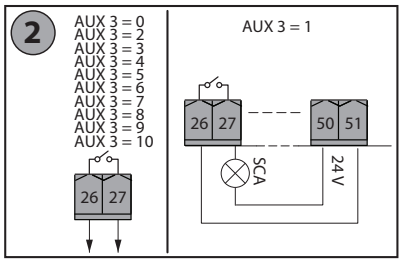
Fissaggio staffe finecorsa (dx e sx), Fastening limit switch brackets (RH/LH),
Fixation étriers fin de course (drt et gch), Befestigung Bügel Anschläge (rechts und links)
Fijación abrazaderas final de carrera (der. e izq.),
Bevestiging stangen aanslag (rechts en links).

G



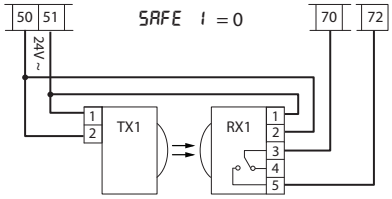
F1	DEIMOS ULTRA BT A 400	DEIMOS ULTRA BT A 600
110-120V	1,6AT	1,6AT
220-230V	0,8AT	1AT





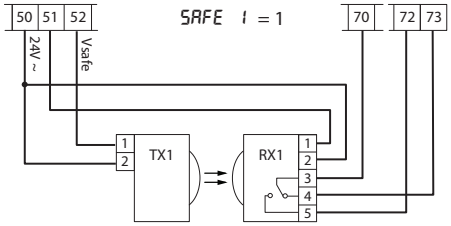
**Con logica inversione direzione di apertura = 000 (DIR=DX)
**With reverse logic, opening direction = 000 (DIR=right)
** Avec logique inversion direction d'ouverture = 000 (DIR=DRT)
**Mit Inversionslogik Ö nungsrichtung = 000 (DIR=rechts)
**Con lógica inversión dirección de apertura = 000 (DIR=DER)
**Met logica omkering openingsrichting = 000 (DIR=R)

H1



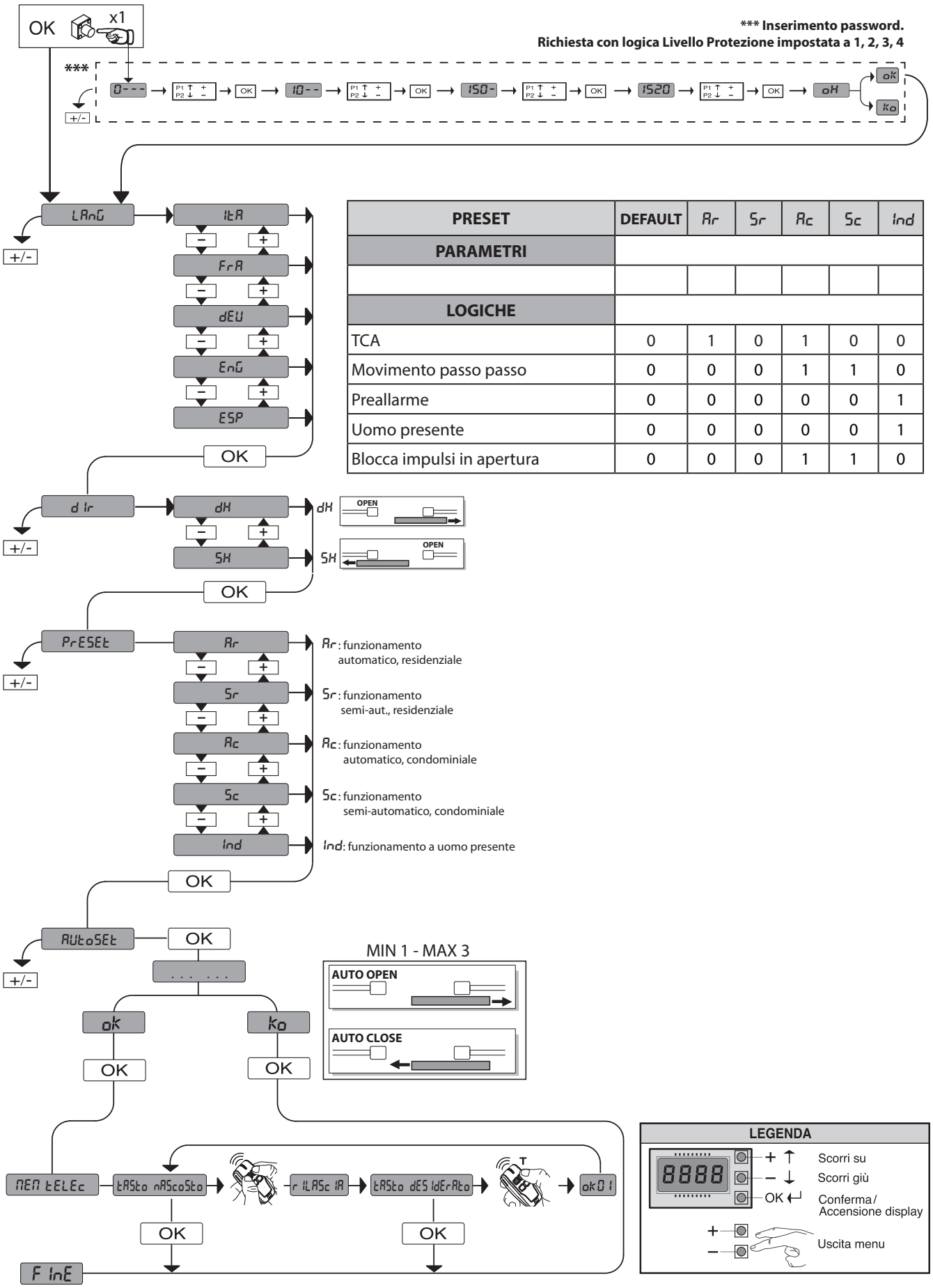
Fotocellule non verificate (Check ogni 6 mesi)
Photocells not checked (Check every 6 months)
Photocellules non vérifiées (contrôle tous les 6 mois)
Fotozellen nicht überprüft (alle 6 Monate überprüfen)
Fotocélulas no controladas (Control cada 6 meses)
Fotocellen niet gecontroleerd (Check elke 6 maanden)

H2



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

MENU SEMPLIFICATO (FIG.1)



PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETRI						
LOGICHE						
TCA	0	1	0	1	0	0
Movimento passo passo	0	0	0	1	1	0
Preallarme	0	0	0	0	0	1
Uomo presente	0	0	0	0	0	1
Blocca impulsi in apertura	0	0	0	1	1	0

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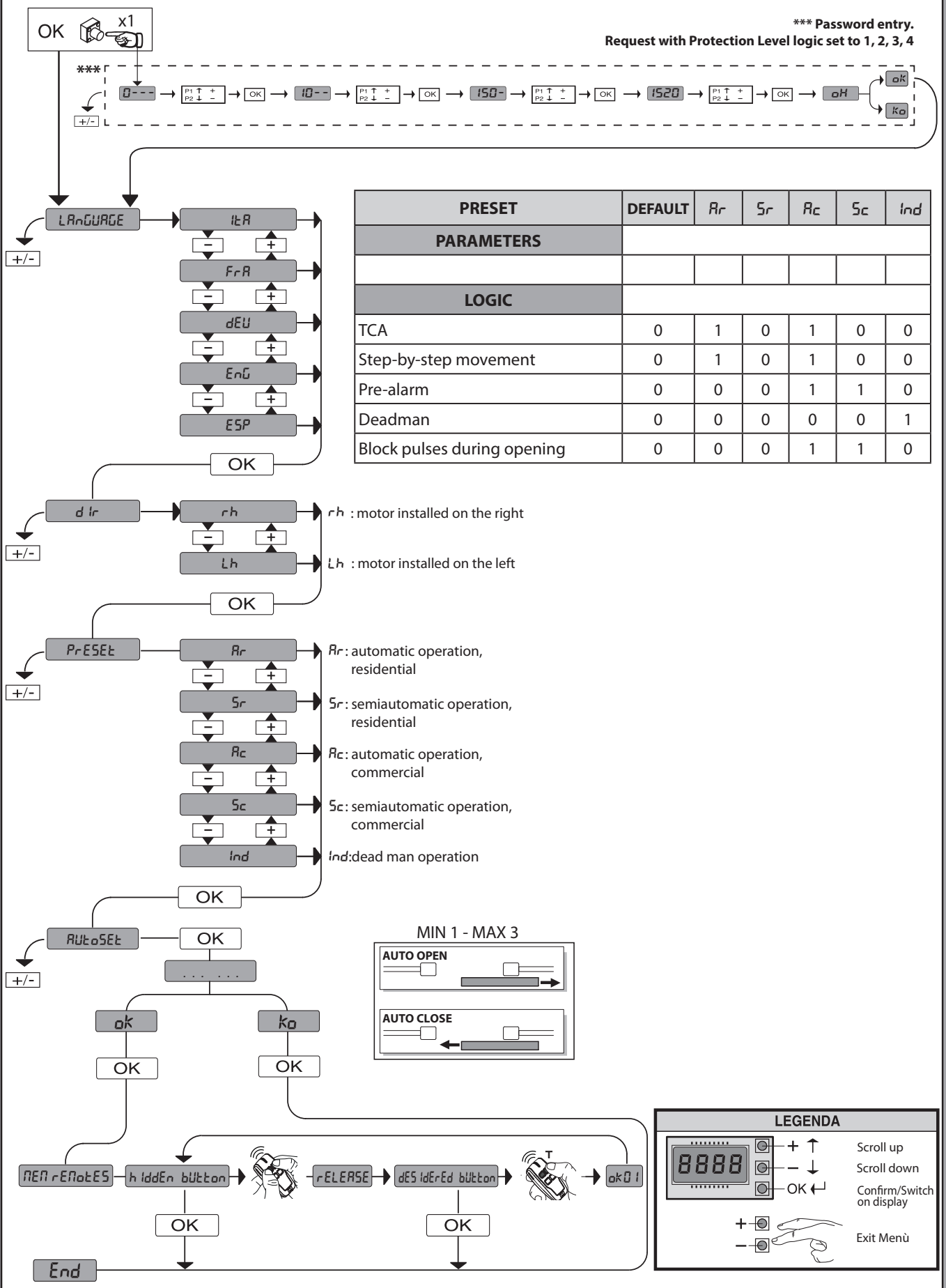
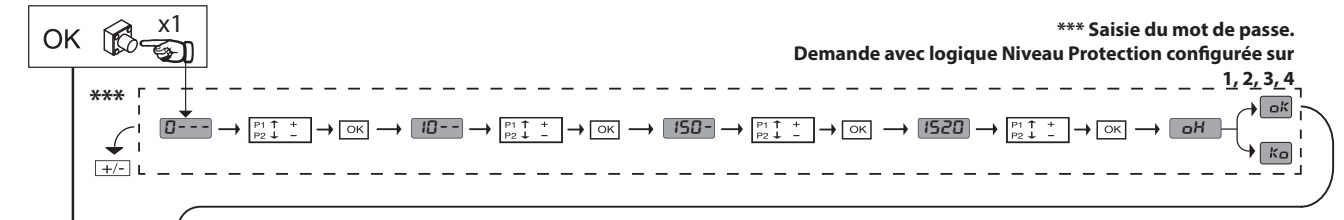
SIMPLIFIED MENU (FIG.1)



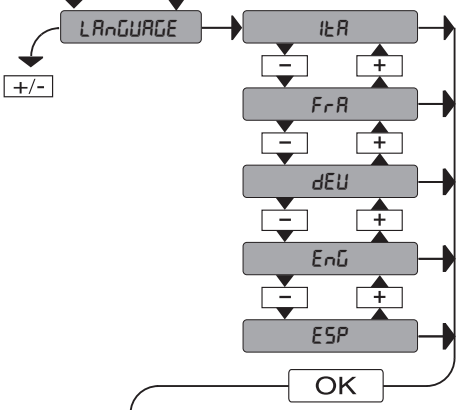
PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETERS						
LOGIC						
TCA	0	1	0	1	0	0
Step-by-step movement	0	1	0	1	0	0
Pre-alarm	0	0	0	1	1	0
Deadman	0	0	0	0	0	1
Block pulses during opening	0	0	0	1	1	0

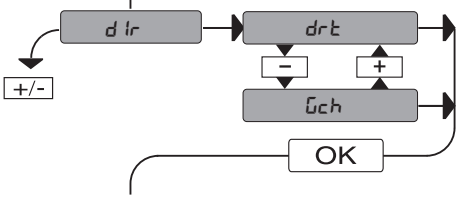
MENU SIMPLIFIÉ (FIG.1)



***** Saisie du mot de passe.**
Demande avec logique Niveau Protection configurée sur 1, 2, 3, 4

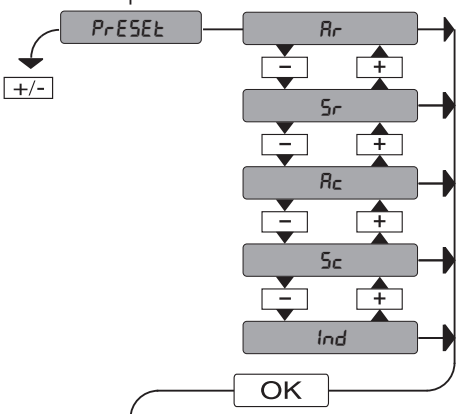
PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETRES						
LOGIQUES						
TCA	0	1	0	1	0	0
Mouvement pas à pas	0	1	0	1	0	0
Préalarme	0	0	0	1	1	0
Homme-présent	0	0	0	0	0	1
Verrouillage impulsions à l'ouverture	0	0	0	1	1	0





drt : moteur installé à droite

Gch : moteur installé à gauche



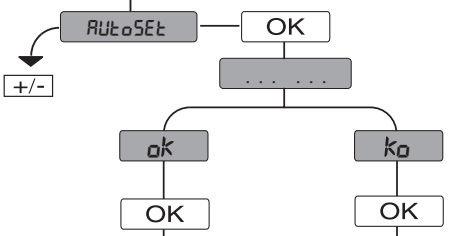
Ar : fonctionnement automatique, résidentiel

Sr : fonctionnement semi-automatique, résidentiel

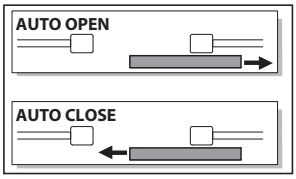
Ac : fonctionnement automatique, collectif

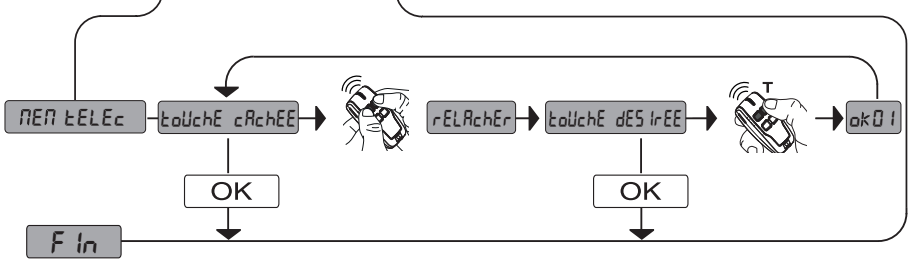
Sc : fonctionnement semi-automatique, collectif

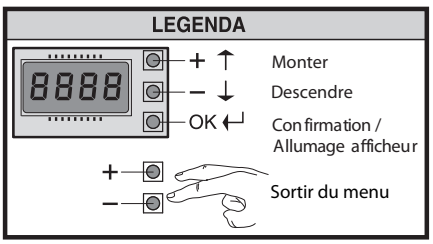
Ind : fonctionnement à homme présent



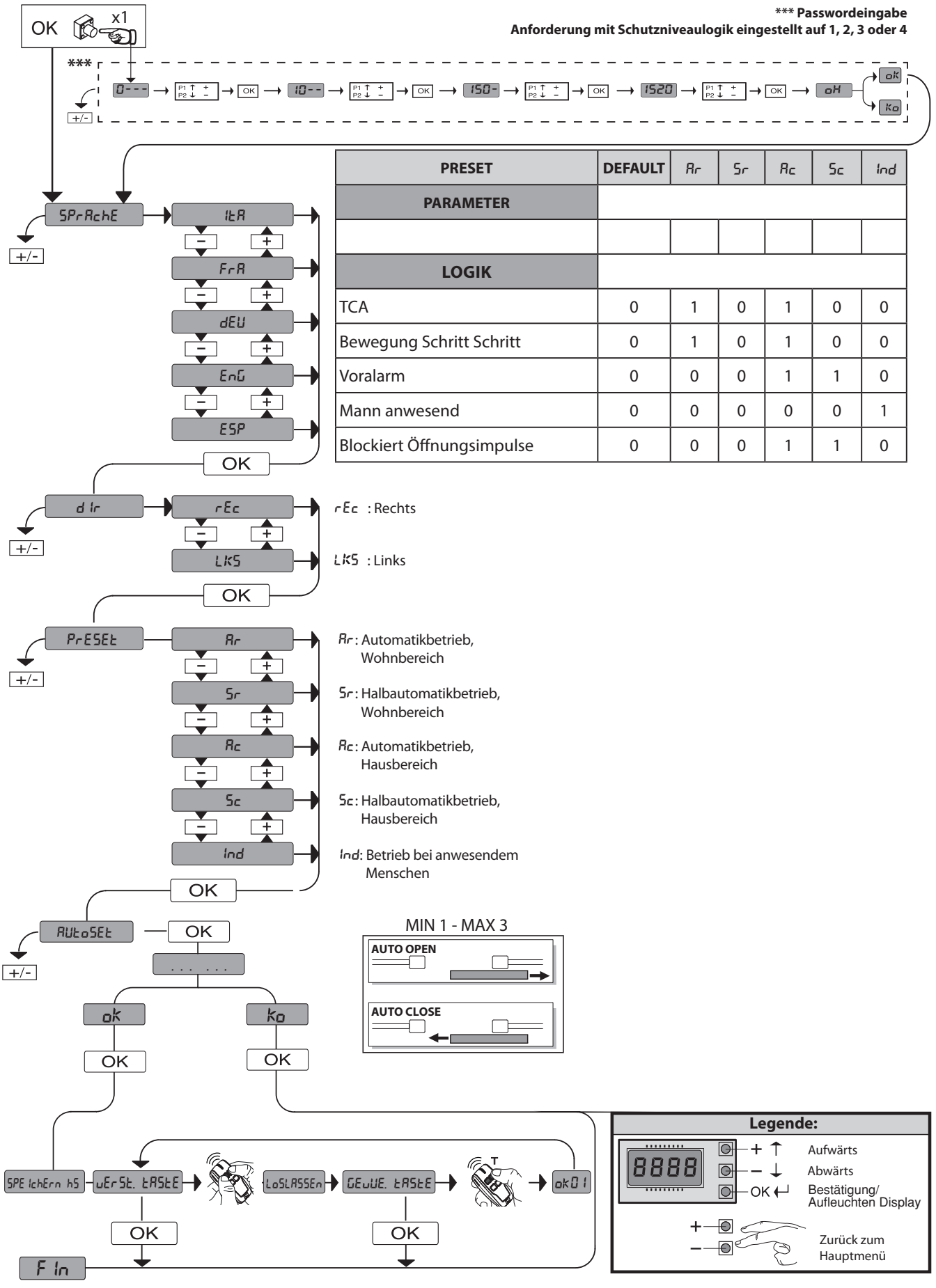
MIN 1 - MAX 3





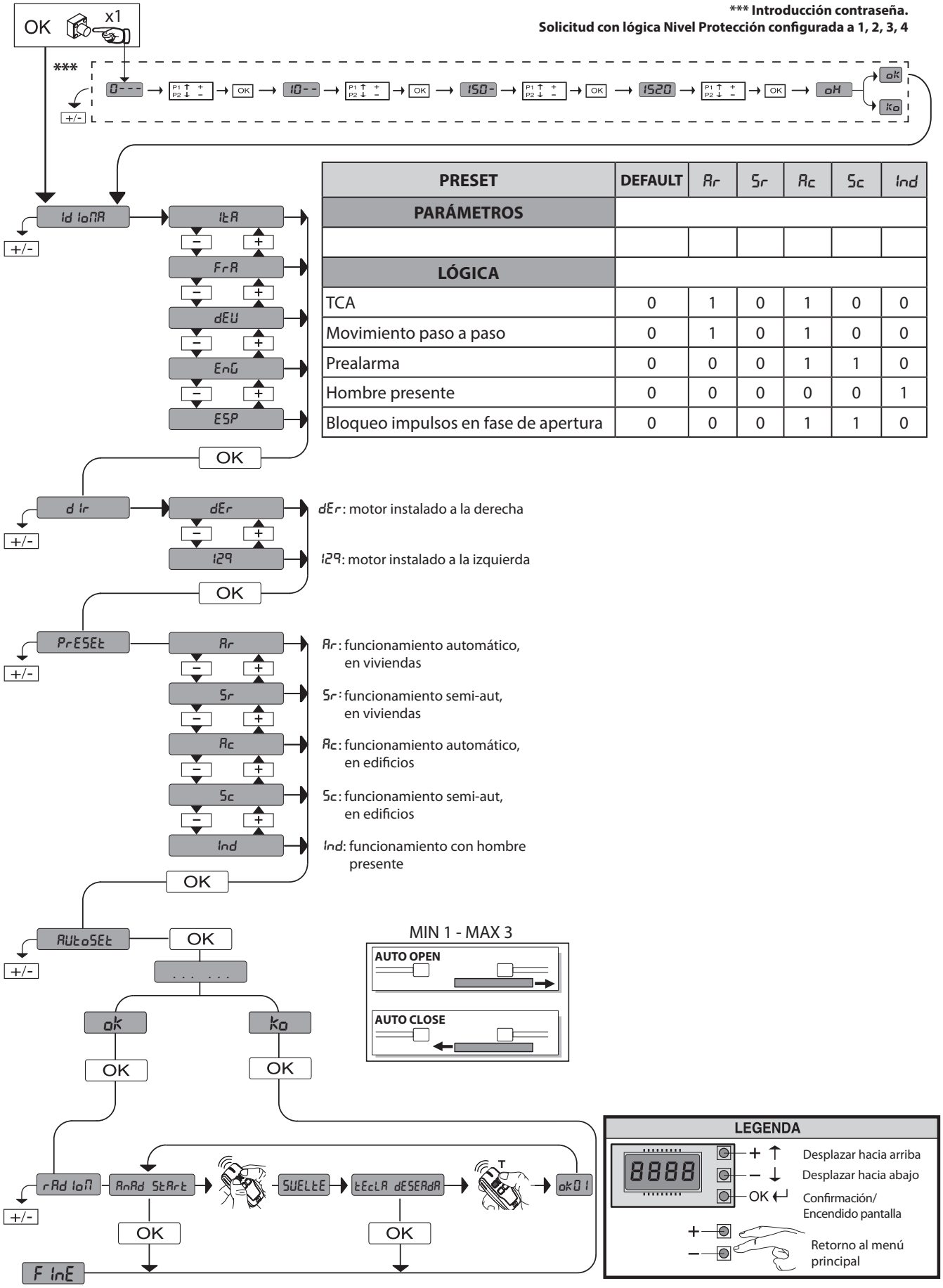


VEREINFACHTES MENÜ (FIG.1)



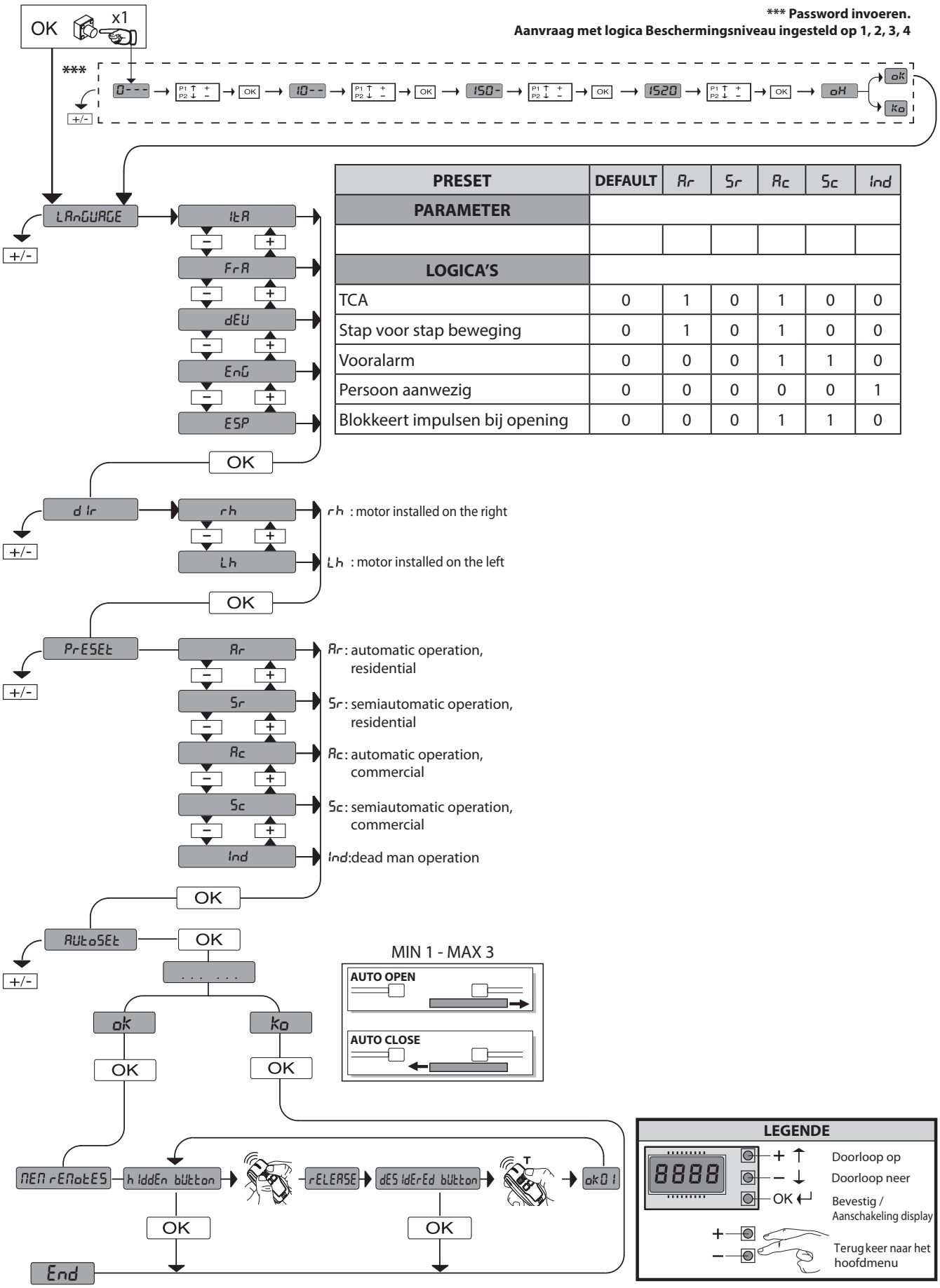
PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETER						
LOGIK						
TCA	0	1	0	1	0	0
Bewegung Schritt Schritt	0	1	0	1	0	0
Voralarm	0	0	0	1	1	0
Mann anwesend	0	0	0	0	0	1
Blockiert Öffnungsimpulse	0	0	0	1	1	0

MENUS SEMPLIFICADO (FIG.1)

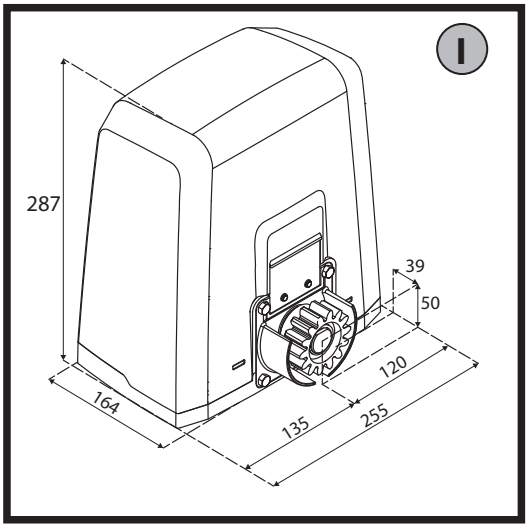


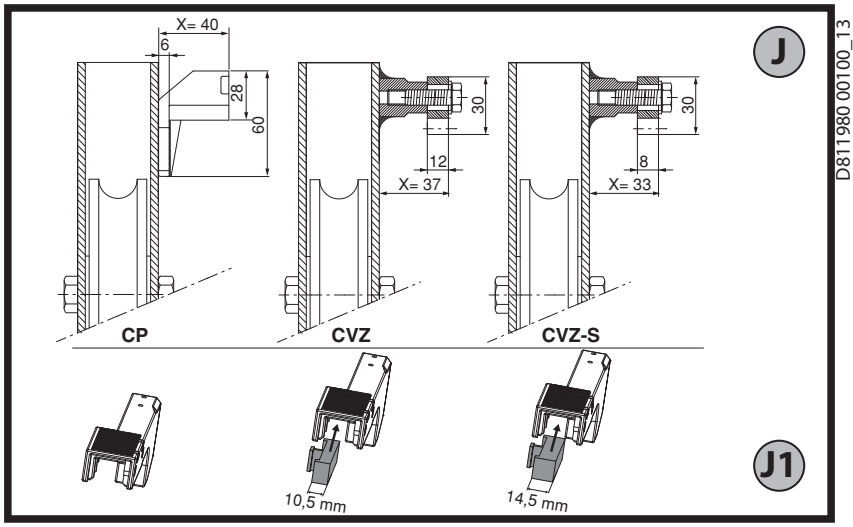
PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARÁMETROS						
LÓGICA						
TCA	0	1	0	1	0	0
Movimiento paso a paso	0	1	0	1	0	0
Prealarma	0	0	0	1	1	0
Hombre presente	0	0	0	0	0	1
Bloqueo impulsos en fase de apertura	0	0	0	1	1	0

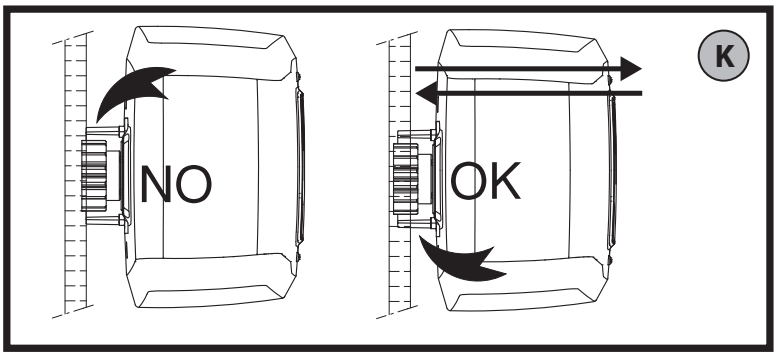
SIMPLIFIED MENU (FIG.1)

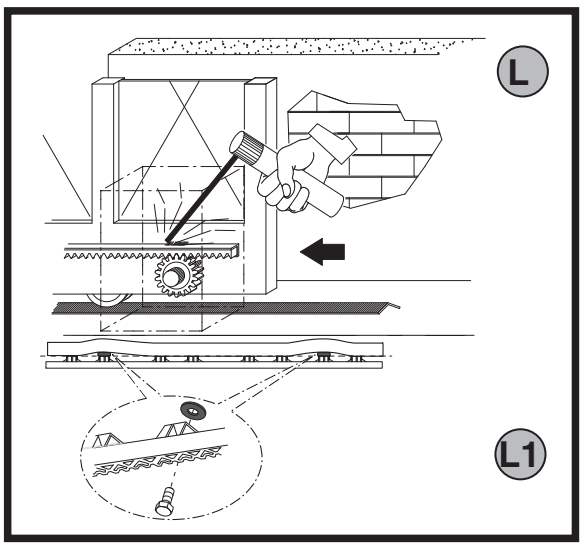


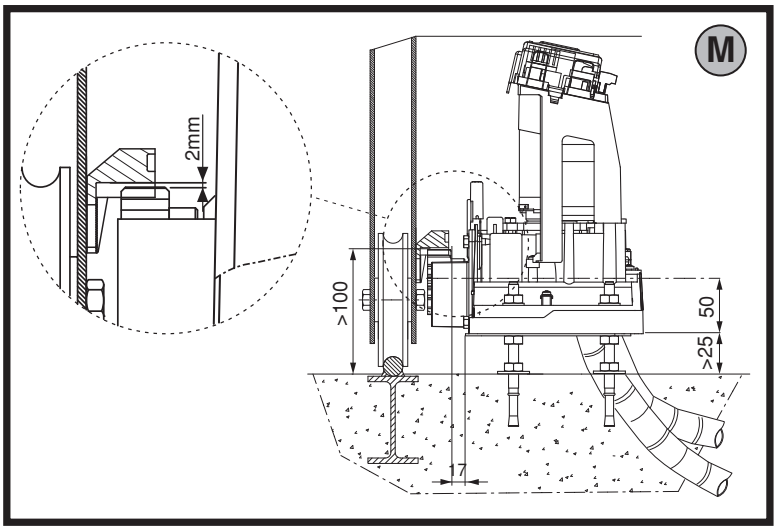
PRESET	DEFAULT	Ar	Sr	Ac	Sc	Ind
PARAMETER						
LOGICA'S						
TCA	0	1	0	1	0	0
Stap voor stap beweging	0	1	0	1	0	0
Vooralarm	0	0	0	1	1	0
Persoon aanwezig	0	0	0	0	0	1
Blokkeert impulsen bij opening	0	0	0	1	1	0

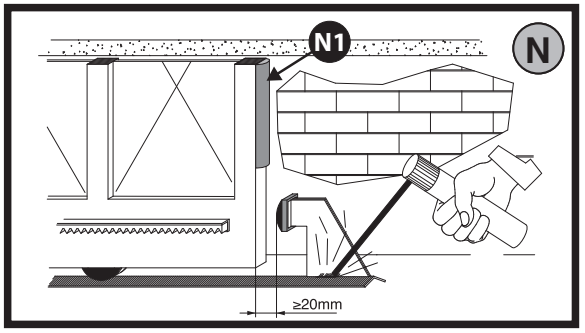

I
287
39
50
120
164
135
255

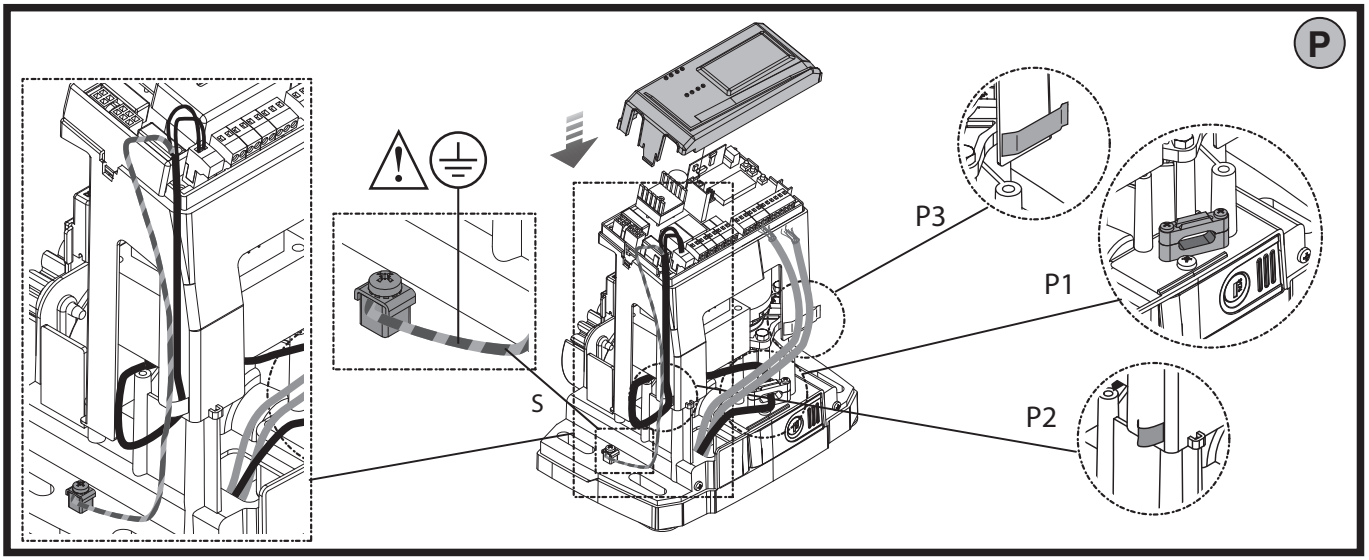

J
X= 40
6
28
60
30
12
X= 37
30
8
X= 33
CP
CVZ
CVZ-S
J1
10,5 mm
14,5 mm


K
NO
OK

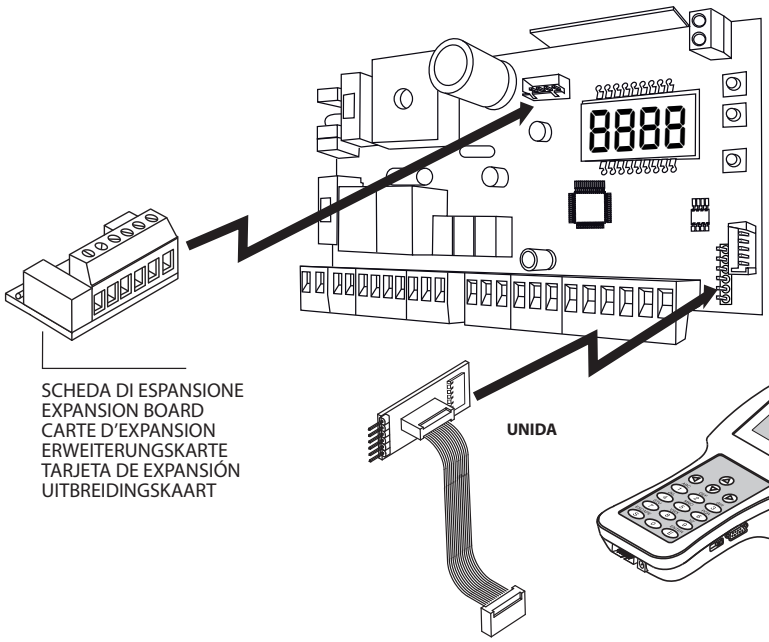

L
L1


M
2mm
>100
50
≥25
17


N
N1
≥20mm


P
P3
P1
P2
S

Q



SCHEDA DI ESPANSIONE
EXPANSION BOARD
CARTE D'EXPANSION
ERWEITERUNGSKARTE
TARJETA DE EXPANSIÓN
UITBREIDINGSKAART

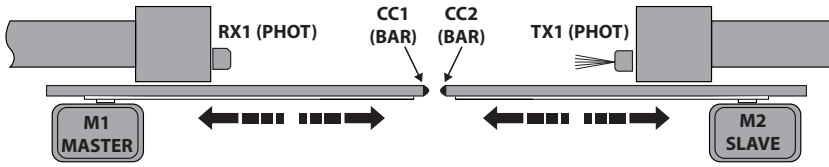
UNIDA

PROGRAMMATORE PALMARE UNIVERSALE
UNIVERSAL PALMTOP PROGRAMMER
PROGRAMMATEUR DE POCHE UNIVERSEL
UNIVERSELLEN PALMTOP-PROGRAMMIERER
PROGRAMADOR DE BOLSILLO UNIVERSAL
UNIVERSEEL HANDHELD PROGRAMMEERAPPARAAT

R

Ind Ir 122o=0
AddrESS=0
AdrESSE=0
AdrESSE=0
d IrEcc ion=0

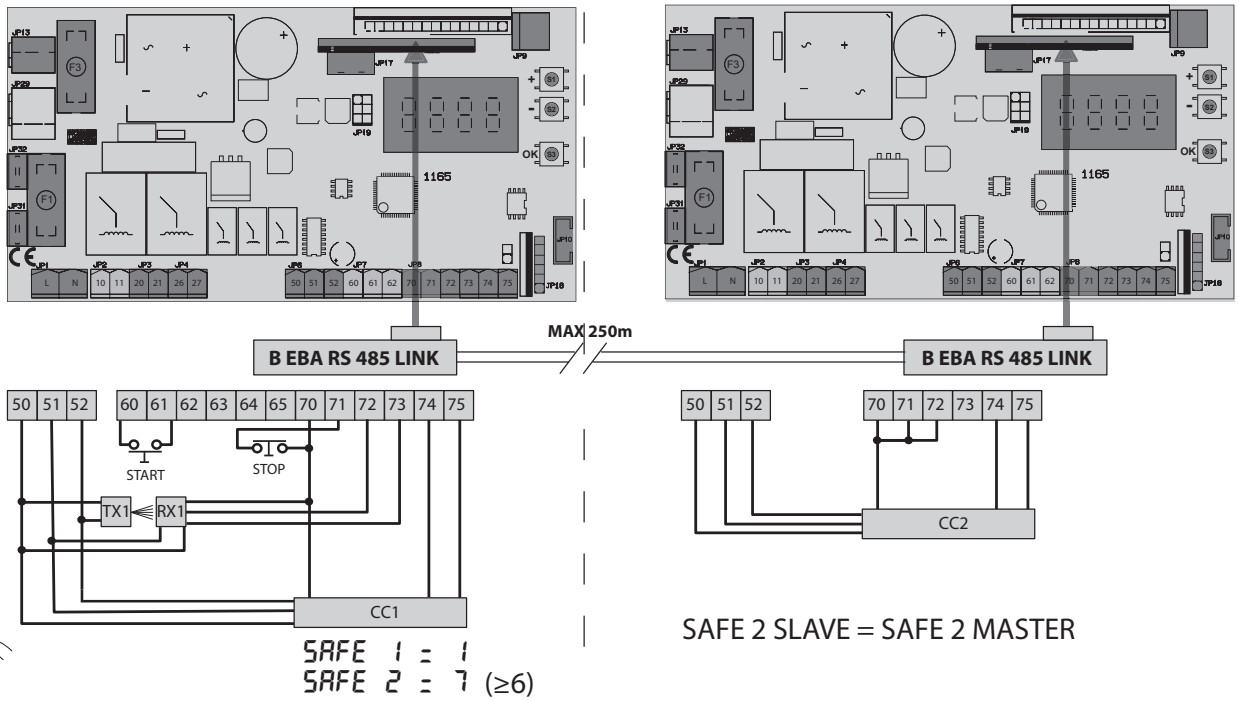
Modo SEr tALE=3
SEr tAL ModE=3
ModE SEr tE=3
SEr tELLEr ModUS=3
Modo SEr tA=3



Ind Ir 122o=0
AddrESS=0
AdrESSE=0
AdrESSE=0
d IrEcc ion=0

Modo SEr tALE=2
SEr tAL ModE=2
ModE SEr tE=2
SEr tELLEr ModUS=2
Modo SEr tA=2

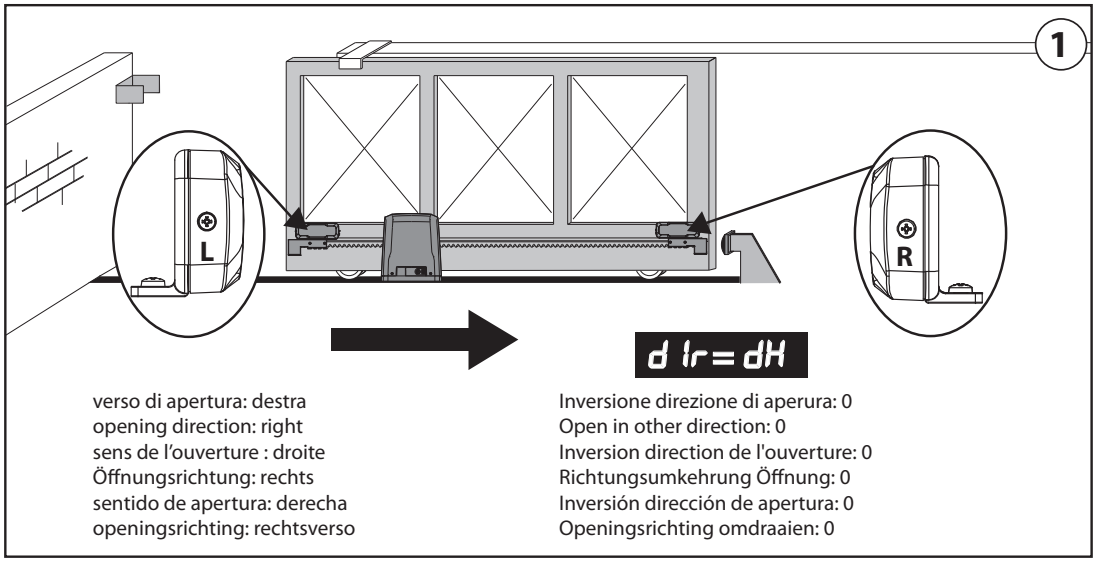
ESEMPIO APPLICAZIONE ANTE CONTRAPPOSTE CON 1 PHOT E 2 BAR - SAMPLE APPLICATION WITH OPPOSITE LEAVES WITH 1 PHOT AND 2 BAR - EXEMPLE D'APPLICATION VANTAUX OPPOSÉS AVEC 1 PHOT ET 2 BAR - ANWENDUNGSBEISPIEL EINANDER ENTGEGENGESETZTE TORFLÜGEL MIT 1 PHOT UND 2 BAR EJEMPLO DE APLICACIÓN DE HOJAS CONTRAPUESTAS CON 1 PHOT Y 2 BAR - VOORBEELD TOEPASSING TEGENOVERGESTELDE VLEUGELS MET 1 PHOT EN 2 BAR



L'AUTOSET DEVE ESSERE EFFETTUATO SEPARATAMENTE SULLE 2 ANTE PRIMA DI IMPOSTARE LA FUNZIONE ANTE CONTRAPPOSTE.
THE AUTO-SET MUST BE PERFORMED SEPARATELY ON THE 2 LEAVES BEFORE SETTING THE FUNCTION OF THE OPPOSITE LEAVES.
LE RÉGLAGE AUTOMATIQUE DOIT ÊTRE EFFECTUÉ SÉPARÉMENT SUR LES 2 VANTAUX AVANT DE RÉGLER LA FONCTION DES VANTAUX OPPOSÉS.
DIE FUNKTION AUTOSET MUSS SEPARAT AN DEN 2 TORFLÜGELN DURCHGEFÜHRT WERDEN, BEVOR DIE FUNKTION DER ENTGEGENGESETZTEN TORFLÜGEL EINGESTELLT WIRD.
LA PRUEBA DEBE REALIZARSE POR SEPARADO EN LAS 2 HOJAS ANTES DE CONFIGURAR LA FUNCIÓN HOJAS CONTRAPUESTAS.
DE AUTOSET MOET AFZONDERLIJK UITGEVOERD WORDEN OP DE 2 VLEUGELS VOORDAT DE FUNCTIE VAN DE TEGENOVERGESTELDE VLEUGELS WORDT INGESTELD.

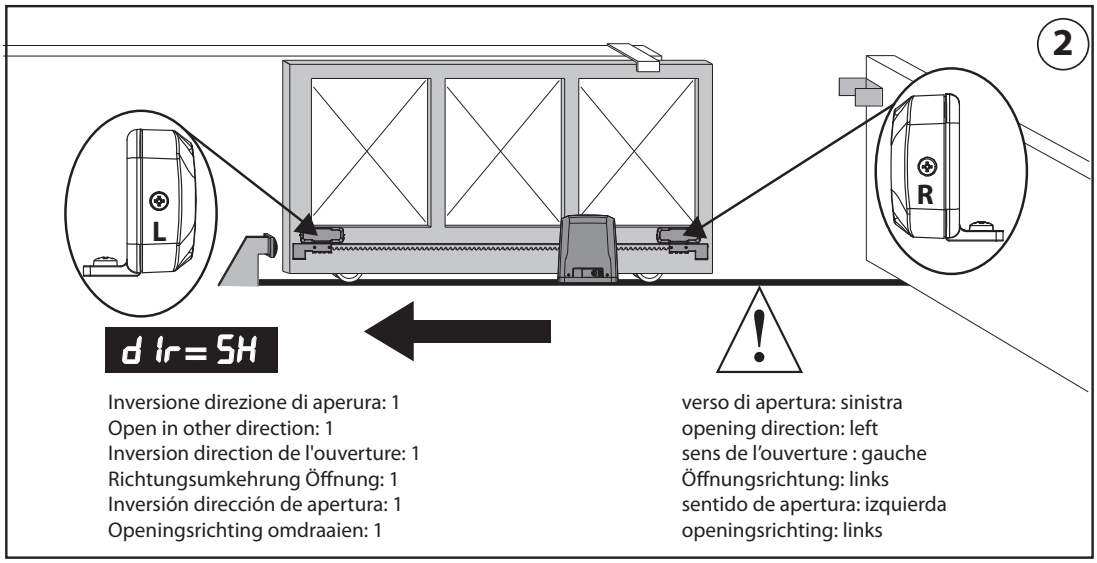
PER IL COLLEGAMENTO DI PIÙ FOTOCELLULE FARE RIFERIMENTO ALLA FIG. U - TO CONNECT SEVERAL PHOTOCELLS, REFER TO FIG. U POUR BRANCHER PLUSIEURS PHOTOCELLULES CONSULTEZ LA FIG. U - BITTE NEHMEN SIE FÜR DEN ANSCHLUSS MEHRERER FOTOZELLEN AUF FIG. U BEZUG. PARA LA CONEXIÓN DE VARIAS FOTOCÉLULAS CONSULTAR LA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

S



verso di apertura: destra
opening direction: right
sens de l'ouverture : droite
Öffnungsrichtung: rechts
sentido de apertura: derecha
openingsrichting: rechtsverso

Inversione direzione di aperura: 0
Open in other direction: 0
Inversion direction de l'ouverture: 0
Richtungsumkehrung Öffnung: 0
Inversión dirección de apertura: 0
Openingsrichting omdraaien: 0

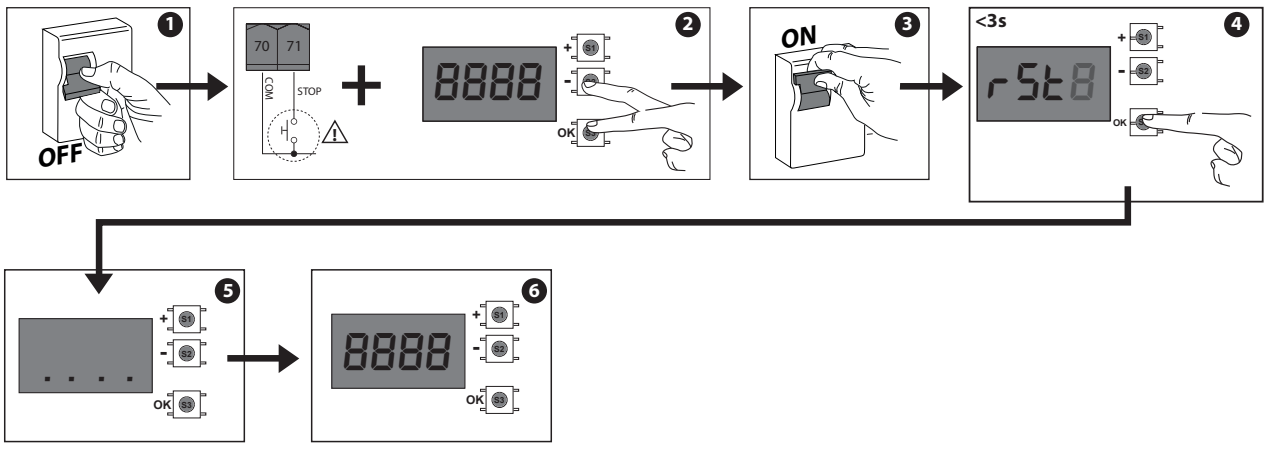


Inversione direzione di aperura: 1
Open in other direction: 1
Inversion direction de l'ouverture: 1
Richtungsumkehrung Öffnung: 1
Inversión dirección de apertura: 1
Openingsrichting omdraaien: 1

verso di apertura: sinistra
opening direction: left
sens de l'ouverture : gauche
Öffnungsrichtung: links
sentido de apertura: izquierda
openingsrichting: links

- Nel passaggio di configurazione logica da apertura destra/sinistra, non invertire il collegamento originale dei morsetti 42-43.
- When switching logic configuration from right to left opening, do not swap over original connection of terminals 42-43.
- Lors du passage de configuration logique de l'ouverture droite/gauche, n'inversez pas la connexion d'origine des bornes 42-43
- Bei der Änderung der Logik Öffnung rechts/links nicht den Originalanschluss der Klemmen 42-43 verändern.
- En el paso de configuración lógica de apertura derecha/izquierda no invertir la conexión original de los bornes 42-43.
- Bij de overgang van de logica configuratie van rechts/links openen, de oorspronkelijke aansluiting van de klemmen 42-43 niet omdraaien.

T

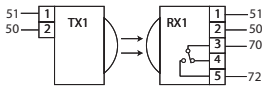


U

SAFE 1

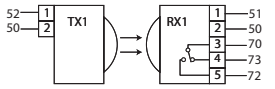
TEST OFF — SAFE1 = 0,2,4

1 PHOT / 1 PHOT OP / 1 PHOT CL

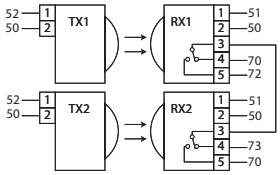


TEST ON — SAFE1 = 1,3,5

1 PHOT / 1 PHOT OP / 1 PHOT CL

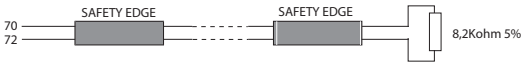


2 PHOT / 2 PHOT OP / 2 PHOT CL



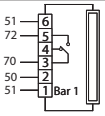
SAFE1 = 8,11,14

BAR 8K2 / BAR 8K2 OP / BAR 8K2 CL



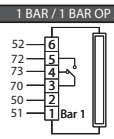
SAFE1 = 6,9,12

1 BAR / 1 BAR OP / 1 BAR CL

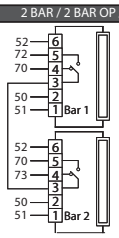


SAFE1 = 7,10,13

1 BAR / 1 BAR OP / 1 BAR CL



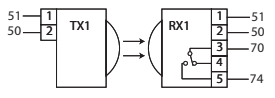
2 BAR / 2 BAR OP / 2 BAR CL



SAFE 2

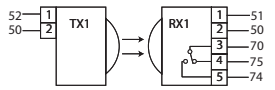
TEST OFF — SAFE2 = 0,2,4

1 PHOT / 1 PHOT OP / 1 PHOT CL

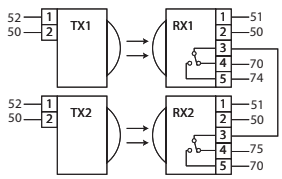


TEST ON — SAFE2 = 1,3,5

1 PHOT / 1 PHOT OP / 1 PHOT CL

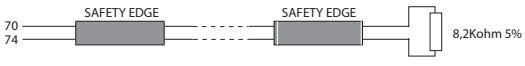


2 PHOT / 2 PHOT OP / 2 PHOT CL



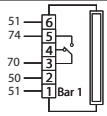
SAFE1 = 8,11,14

BAR 8K2 / BAR 8K2 OP / BAR 8K2 CL



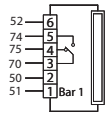
SAFE2 = 6,9,12

1 BAR / 1 BAR OP / 1 BAR CL

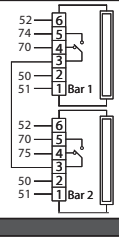


SAFE2 = 7,10,13

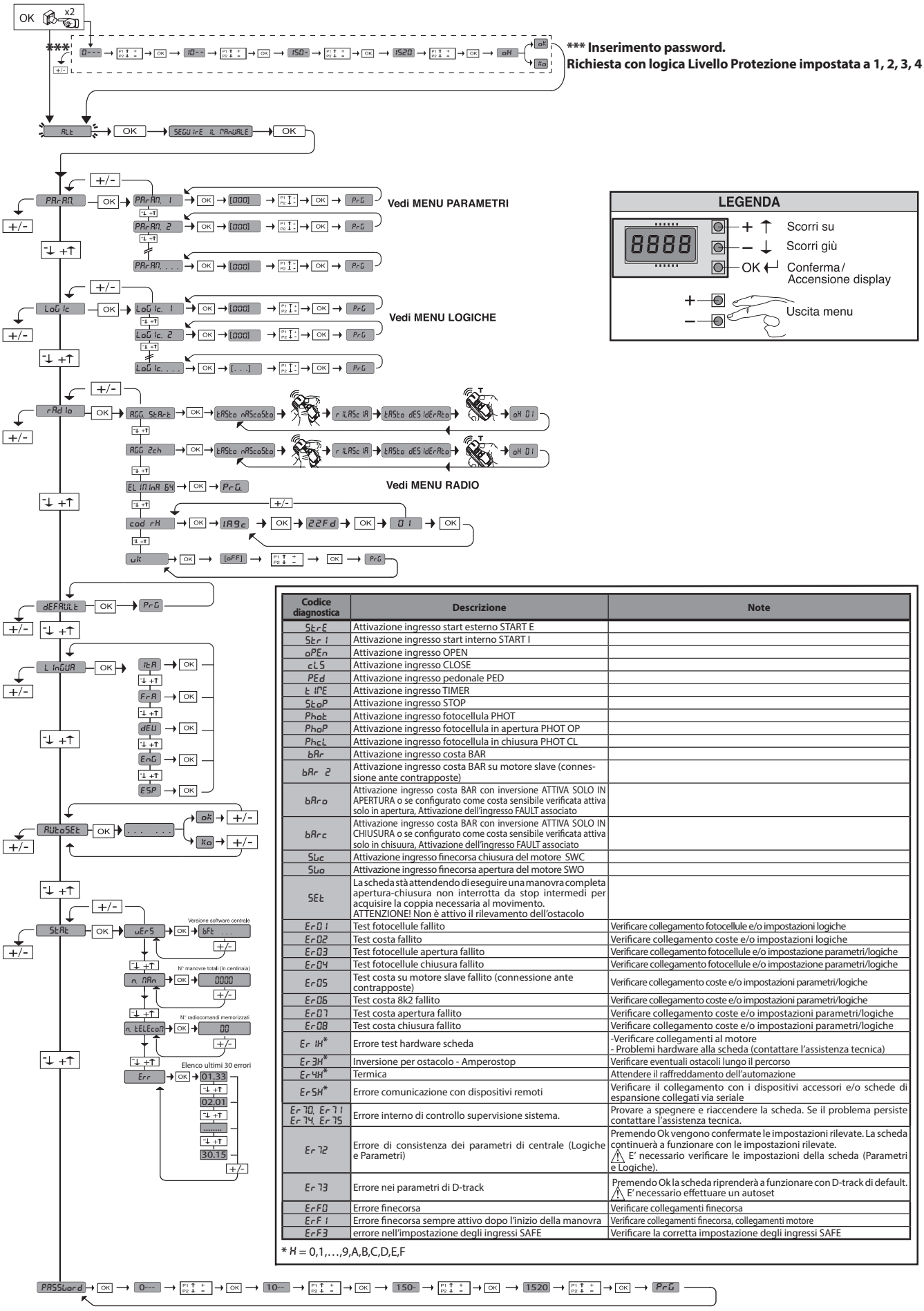
1 BAR / 1 BAR OP / 1 BAR CL



2 BAR / 2 BAR OP / 2 BAR CL



ACCESSO AI MENU Fig. 2



Codice diagnostica	Descrizione	Note
StrE	Attivazione ingresso start esterno START E	
Str I	Attivazione ingresso start interno START I	
oPEn	Attivazione ingresso OPEN	
cLS	Attivazione ingresso CLOSE	
PEd	Attivazione ingresso pedonale PED	
t IME	Attivazione ingresso TIMER	
StoP	Attivazione ingresso STOP	
Phot	Attivazione ingresso fotocellula PHOT	
PhoP	Attivazione ingresso fotocellula in apertura PHOT OP	
PhcL	Attivazione ingresso fotocellula in chiusura PHOT CL	
bAr	Attivazione ingresso costa BAR	
bAr 2	Attivazione ingresso costa BAR su motore slave (connessione ante contrapposte)	
bAro	Attivazione ingresso costa BAR con inversione ATTIVA SOLO IN APERTURA o se configurato come costa sensibile verificata attiva solo in apertura, Attivazione dell'ingresso FAULT associato	
bArc	Attivazione ingresso costa BAR con inversione ATTIVA SOLO IN CHIUSURA o se configurato come costa sensibile verificata attiva solo in chisuura, Attivazione dell'ingresso FAULT associato	
Suc	Attivazione ingresso finecorsa chiusura del motore SWC	
Suo	Attivazione ingresso finecorsa apertura del motore SWO	
SEt	La scheda stà attendendo di eseguire una manovra completa apertura-chiusura non interrotta da stop intermedi per acquisire la coppia necessaria al movimento. ATTENZIONE! Non è attivo il rilevamento dell'ostacolo	
Er01	Test fotocellule fallito	Verificare collegamento fotocellule e/o impostazioni logiche
Er02	Test costa fallito	Verificare collegamento coste e/o impostazioni logiche
Er03	Test fotocellule apertura fallito	Verificare collegamento fotocellule e/o impostazione parametri/logiche
Er04	Test fotocellule chiusura fallito	Verificare collegamento fotocellule e/o impostazione parametri/logiche
Er05	Test costa su motore slave fallito (connessione ante contrapposte)	Verificare collegamento coste e/o impostazioni parametri/logiche
Er06	Test costa 8k2 fallito	Verificare collegamento coste e/o impostazioni parametri/logiche
Er07	Test costa apertura fallito	Verificare collegamento coste e/o impostazioni parametri/logiche
Er08	Test costa chiusura fallito	Verificare collegamento coste e/o impostazioni parametri/logiche
Er 1H*	Errore test hardware scheda	-Verificare collegamenti al motore - Problemi hardware alla scheda (contattare l'assistenza tecnica)
Er3H*	Inversione per ostacolo - Amperostop	Verificare eventuali ostacoli lungo il percorso
Er4H*	Termica	Attendere il raffreddamento dell'automazione
Er5H*	Errore comunicazione con dispositivi remoti	Verificare il collegamento con i dispositivi accessori e/o schede di espansione collegati via seriale
Er10, Er11 Er14, Er15	Errore interno di controllo supervisione sistema.	Provare a spegnere e riaccendere la scheda. Se il problema persiste contattare l'assistenza tecnica.
Er12	Errore di consistenza dei parametri di centrale (Logiche e Parametri)	Premendo Ok vengono confermate le impostazioni rilevate. La scheda continuerà a funzionare con le impostazioni rilevate. ⚠ E' necessario verificare le impostazioni della scheda (Parametri e Logiche).
Er13	Errore nei parametri di D-track	Premendo Ok la scheda riprenderà a funzionare con D-track di default. ⚠ E' necessario effettuare un autoset
ErF0	Errore finecorsa	Verificare collegamenti finecorsa
ErF1	Errore finecorsa sempre attivo dopo l'inizio della manovra	Verificare collegamenti finecorsa, collegamenti motore
ErF3	errore nell'impostazione degli ingressi SAFE	Verificare la corretta impostazione degli ingressi SAFE

* H = 0,1,…,9,A,B,C,D,E,F

INSTALLATION MANUAL

1) GENERAL INFORMATION
The **DEIMOS ULTRA BT A** actuator is highly versatile in terms of installation options due to the extremely low position of the pinion, the actuator's compact nature and the height and depth adjustment features it offers. The adjustable electronic torque limiter provides anti-crush safety. Manual emergency operation is extremely easy to perform using just a release lever.
Stopping is controlled by polarized magnetic limit switches.
The MERAK control panel comes with standard factory settings. Any change must be made using the programmer with built-in display or universal handheld 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.

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

2) TECHNICAL SPECIFICATIONS

MOTOR		
	400	600
Power supply	110-120V 50/60Hz 220-230V 50/60 Hz(*)	110-120V 50/60Hz 220-230V 50/60 Hz(*)
Motor	24V ⎓	24V ⎓
Power input	50W	70W
Max. current demand	0,5A (230V~) - 1A (110V~)	0,5A (230V~) - 1A (110V~)
Pinion module (standard)	4mm (14 teeth)	4mm (14 teeth)
Leaf speed (standard)	12m/min	12m/min
Max. leaf weight-standard**	4000N (≈400kg)	6000N (≈600kg)
Pinion module (fast)	4mm (18 teeth)	4mm (18 teeth)
Leaf speed (fast)	15.5m/min	15.5m/min
Max. leaf weight-fast**	3000N (≈300kg)	3600N (≈360kg)
Max. torque	20Nm	30Nm
Impact reaction	Electronic torque limiter	Electronic torque limiter
Lubrication	Lifetime greased	Lifetime greased
Manual operation	Lever-operated mechanical release	Lever-operated mechanical release
Type of use	intensive	intensive
Buffer batteries (optional extras)	Two 12V 1.2Ah batteries	Two 12V 1.2Ah batteries
Environmental conditions	from -20°C to +55°C	from -20°C to +55°C
Protection rating	IP44	IP44
Noise level	<70dBA	<70dBA
Operator weight	7kg (≈70N)	7kg (≈70N)
Dimensions	See Fig. I	See Fig. I
CONTROL UNIT		
Low voltage/mains insulation	> 2MOhm 500V ⎓	
Operating temperature range	-20 / +55°C	
Thermal overload protection	Software	
Dielectric rigidity	mains/LV 3750V~ for 1 minute	
Accessories power supply	24V~ (demand max. 0,5A) 24V~ safe	
AUX 0	NO 24V ~powered contact (max.1A)	
AUX 3	NO contact (24V~/max.1A)	
Fuses	Fig. G	
Built-in Rolling-Code radio-receiver	frequency 433.92MHz	
Setting of parameters and options	Universal handheld programmer/LCD display	
N° of combinations	4 billion	
Max. n° of remotes that can be memorized	63	

(*) Special supply voltages to order.
** There are no minimum or maximum dimension restrictions for the guided part that can be used.

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

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

4) PREPARATION FOR MOTOR MOUNTING FIG.B
Make a hole in the ground to accommodate the concrete pad, with anchors embedded in the base plate for fastening the gearbox assembly, keeping to the distances featured in **FIG.B**.

5) REMOVING THE COVER Fig.C
- Unscrew the relevant two front screws (FIG. C - rif.1)
- Push as illustrated (FIG.C - rif.2 - rif.3) to release the cover from the two rear blocks (FIG.C - rif.3A e FIG.C - rif.3B).
- Lift the cover (FIG.C - rif.4).

6) MOUNTING THE MOTOR FIG.D

7) MOUNTING DRIVE ACCESSORIES FIG.E-E1
Recommended rack types (**FIG.J**)

8) RACK CENTRING WITH RESPECT TO PINION FIG.K-L1-M
⚠ DANGER - Welding must be performed by a competent person issued with the necessary personal protective equipment as prescribed by the safety rules in force FIG.L.

9) FASTENING LIMIT SWITCH BRACKETS FIG.F
Fastening the limit switches:
• Attach the limit switch bracket to the rack as illustrated in FIG.F ref.1.
• Fasten the magnetic limit switch box to the limit switch bracket with the nuts and screws provided, as illustrated in figure F ref.2 – F ref.3.
• Fasten the limit switch bracket to the rack by screwing in the two front screws provided FIG.F ref.4.
When using racks CVZ and CVZ-S, use spacers as illustrated in FIG.J ref.1

Right-hand limit switch:
• Fasten the Right-hand magnetic limit switch called "R"; do not exceed the stated maximum distance between the magnetic limit switch box and the limit switch assembly, FIG.F.
Left-hand limit switch:
• Fasten the Left-hand magnetic limit switch called "L"; do not exceed the stated maximum distance between the magnetic limit switch box and the limit switch assembly, FIG.F.

Warning. Do not swap over the limit switch brackets once you have changed the opening direction via the relevant logic

10) STOPS FIG.N
⚠ DANGER - The gate must be fitted with mechanical stops to halt its travel both when opening and closing, thus preventing the gate from coming off the top guide. Said stops must be fastened firmly to the ground, a few centimetres beyond the electric stop point.

Note: the safety edge N1 must be installed so that it is not triggered by the mechanical stops.

11) MANUAL RELEASE (See USER GUIDE -FIG.3-).
Warning Do not JERK the gate open and closed, instead push it GENTLY to the end of its travel.

12) TERMINAL BOARD WIRING Fig. G-P
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 (FIG.P-ref.P1) and in the grommet (FIG.P-ref.P2), while the earth wire with the yellow/green-coloured sheath must be connected in the relevant terminal (FIG.P-ref.S) and the extra low voltage wires must be run through the relevant grommet (FIG.P ref.P3).

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.

12.1) 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.

13) SAFETY DEVICES
Note: only use receiving safety devices with free changeover contact.

13.1) TESTED DEVICES Fig.U

13.2) CONNECTION OF 1 PAIR OF NON-CHECKED PHOTOCELLS FIG. H1

13.3) CONNECTION OF 1 PAIR OF CHECKED PHOTOCELLS FIG. H2

14) ACCESS TO THE SIMPLIFIED MENU: FIG.1

14.1) CALLING UP MENUS: FIG. 2

14.2) PARAMETERS MENU (PAr AM) (PARAMETERS TABLE "A")

14.3) LOGIC MENU (Log ic) (LOGIC TABLE "B")

14.4) 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

	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. 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. Refer to "AUX output configuration" table.
	27		
Limit switches	JP10	Limit switches	Limit switch assembly connection
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 START E. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.
	62	IC 2	Configurable command input 2 (N.O.) - Default PED. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED 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	Ingresso di sicurezza configurabile 1 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 / BAR OP / BAR OP TEST / BAR 8K2 OP/ BAR CL / BAR CL TEST / BAR 8K2 CL Far riferimento alla tabella "Configurazione degli ingressi di sicurezza".
	73	FAULT 1	Test input for safety devices connected to SAFE 1.
	74	SAFE 2	Ingresso di sicurezza configurabile 2 (N.C.) - Default BAR. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2 / BAR OP / BAR OP TEST / BAR 8K2 OP/ BAR CL / BAR CL TEST / BAR 8K2 CL Far riferimento alla tabella "Configurazione degli ingressi di sicurezza".
	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 - GATE OPEN ALARM output. Contact stays closed if the leaf stays open for double the set TCA time.
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.

Note : If no output is configured as 2nd Radio Channel Output, the 2nd radio channel controls the pedestrian opening.

Command input configuration
IC logic= 0 - Input configured as Start E. Operation according to STEP-BY-STEP Mov. logic. External start for traffic light control.
IC logic= 1 - Input configured as Start I. Operation according to STEP-BY-STEP Mov. 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 - Input configured as Ped. The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to STEP-BY-STEP. logic
IC logic= 5 - Input configured as Timer. Operation same as open except closing is guaranteed even after a mains power outage.
IC logic= 6 - Input configured as Timer Ped. The command causes the leaf to open to the pedestrian (partial) opening position. If the input stays closed, the leaf stays open until the contact is opened. If the input stays closed and a Start E, Start I or Open command is activated, a complete opening-closing cycle is performed before returning to the pedestrian opening position. Closing is guaranteed even after a mains power outage.

Safety input configuration
SAFE logic= 0 - Input configured as Phot (photocell) non tested (*). (fig.U, 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.U, 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.U, 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.U, 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.U, 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.U, 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.U, 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.U, 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.U, ref.5). Input for resistive edge 8K2. The command reverses movement for 2 sec.
SAFE logic=9 Input configured as Bar op, safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. D, ref. 3). Allows connecting devices not fitted with supplementary test contact. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop. If not used, leave jumper inserted.
SAFE logic=10 Input configured as Bar op test, safety edge checked with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. D, ref. 4). Activates testing safety edges when starting operation. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.
SAFE logic=11 Input configured as Bar 8k2 op, 8k2 safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. D, ref. 5). The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.
SAFE logic=12 Input configured as Bar cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. D, ref. 3). Allows connecting devices not fitted with supplementary test contact. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop. If not used, leave jumper inserted.
SAFE logic=13 Input configured as Bar cl test, safety edge checked with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. D, ref. 4). Activates testing safety edges when starting operation. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.
SAFE logic=14 Input configured as Bar 8k2 cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. D, ref. 5). The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.

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

instructions and to the general receiver programming guide.

14.5) DEFAULT MENU (dEFAULt)
Restores the controller's DEFAULT factory settings. Following this reset, you will need to run the AUTOSET function again.

14.6) LANGUAGE MENU (LAnGUAGE)
Used to set the programmer's language on the display.

14.7) AUTOSET MENU (AUtoSEt)
- For best results, it is advisable to run the autoset function with the motors idle (i.e. not overheated by a considerable number of consecutive operations).
- Launch an autoset operation by going to the relevant menu.
- As soon as you press the OK button, the "..... ...." message is displayed and the control unit commands the device to perform a full cycle (opening followed by closing), during which the minimum torque value required to move the leaf is set automatically.
  The number of cycles required for the autoset function can range from 1 to 3.
  During this stage, it is important to avoid breaking the photocells' beams and not to use the START and STOP commands or the display.
  Pressing the + and - keys at the same time during this stage stops the automated device and exits the autoset operation, with the message KO appearing on the display. Once this operation is complete, the control unit will have automatically set the optimum torque values. Check them and, where necessary, edit them as described in the programming section.

WARNING!! Check that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.

Impact forces can be reduced by using deformable edges.

Warning!! While the autoset function is running, the obstacle detection function is not active. Consequently, the installer must monitor the automated system's movements and keep people and property out of range of the automated system.

14.8)INSTALLATION TEST PROCEDURE
1. Run the AUTOSET cycle (*)
2. Check the impact forces: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
3. Where necessary, adjust the speed and sensitivity (force) parameters: see parameters table.
4. Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
5. Apply a shock absorber profile
6. Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
7. Apply pressure-sensitive or electro-sensitive protective devices (such as a safety edge) (**)
8. Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
9. Allow the drive to move only in "Deadman" mode
10. Make sure all devices designed to detect obstacles within the system's operating range are working properly

(*) Before running the autoset function, make sure you have performed all the assembly and make-safe operations correctly, as set out in the installation warnings in the drive's manual.
(**) Based on the risk analysis, you may find it necessary to apply sensitive protective devices anyway

14.9) 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.

14.10) 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.

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

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

16) U-LINK OPTIONAL MODULES
Refer to the U-link instructions for the modules.

16.1) REFER TO THE U-LINK MODULE'S INSTRUCTIONS (FIG. R).
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.

17)REVERSING THE OPENING DIRECTION (Fig.S)

18) RESTORING FACTORY SETTINGS (Fig.T)
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.T ref.1)
- Open the Stop input and press the - and OK keys together (Fig.T ref.2)
- Switch on the board's power (Fig.T ref.3)
- The display will read RST; confirm within 3 sec. by pressing the OK key (Fig.T ref.4)
- Wait for the procedure to finish (Fig.T ref.5)
- Procedure finished (Fig.T ref.6)

TABLE "A" - PARAMETERS MENU - (PArAM)

Parameter	min.	max.	Default	Personal	Definition	Description
tcA	0	120	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.
oP.d 1St. SLoUd	1(***)	50	10		**Slow-down distance during opening [%]**	Slow-down distance for motor(s) during opening, given as a percentage of total travel. **WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.**
cL.d 1St. SLoUd	1(***)	50	10		**Slow-down distance during closing [%]**	Slow-down distance for motor(s) during closing, given as a percentage of total travel. **WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.**
d 1St.dEcEL	0	50	15		**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. **WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.**
PArt IAL oPEn InG	10	99	20		**Partial opening [%]**	Partial opening distance as a percentage of total opening following activation of PED pedestrian command.
oP.ForcE	1	99	50		**Leaf force during opening [%]**	Force exerted by leaf/leaves during opening. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. **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 (**).**
cL.S.ForcE	1	99	50		**Leaf force during closing [%]**	Force exerted by leaf/leaves during closing. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. **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 (**).**
oP.SLUd.ForcE	1	99	50		**Leaf/leaves force during opening during slow-down**	"Force exerted by leaf/leaves during opening at slow-down speed." This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. **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 (**).**
cL.S.SLUd. ForcE	1	99	50		**Leaf/leaves force during closing during slow-down [%]**	"Force exerted by leaf/leaves during closing at slow-down speed." This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. **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 (**).**
oP SPEEd	15	99	99		**Opening speed [%}**	Percentage of maximum speed that can be reached by motor(s) during opening. **WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.**
cL SPEEd	15	99	99		**Closing speed [%]**	Percentage of maximum speed that can be reached by motor(s) during closing. **WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.**
SLoU SPEEd	15	30	25		**Slow-down speed [%]**	Opening and closing speed of motor(s) during slow-down stage, given as a percentage of maximum running speed. **WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: When the display reads ""SET"", obstacle detection is not active.**
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.
(***) If the calculated value is less than 30 cm, it is set to 30 cm.

INSTALLATION MANUAL

TABLE "B" - LOGIC MENU - (LoG Ic)

Logic	Definition	Default	Cross out setting used	Optional extras
tcA	**Automatic Closing Time**	0	0	Logic not enabled
			1	Switches automatic closing on
FASt cLS.	**Fast closing**	0	0	Logic not enabled
			1	Closes 3 seconds after the photocells are cleared before waiting for the set TCA to elapse.
StEP-by-StEP MovEMnt	**Step-by-step movement**	0	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**	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during opening.
			1	Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.
Ibl tcA	**Block pulses during TCA**	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during TCA pause.
			1	Pulse from inputs configured as Start E, Start I, Ped has no effect during TCA pause.
Ibl cLoSE	**Block pulses during closing**	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during closing.
			1	Pulse from inputs configured as Start E, Start I, Ped has no effect during closing.
IcE	**Ice feature**	0	0	The Amperostop safety trip threshold stays at the same set value.
			1	The controller automatically adjusts the obstacle alarm trip threshold at each start up. Check that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453. If in doubt, use auxiliary safety devices. This feature is useful when dealing with installations running at low temperatures. WARNING: once this feature has been activated, you will need to perform an autoset opening and closing cycle.
oPEn In othEr dIrEct.	**Open in other direction**	0	0	Standard operating mode (See Fig.S Ref. 1).
			1	Opens in other direction to standard operating mode (See Fig. S Ref.2)

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

ENGLISH

Logic	Definition	Default	Cross out setting used	Optional extras
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.
			9*	Input configured as Bar OP, safety edge with inversion active only while opening. If while closing, the movement stops.
			10*	Input configured as Bar OP TEST, safety edge tested with inversion active only while opening. If while closing, the movement stops.
			11*	Input configured as Bar OP 8k2, safety edge with inversion active only while opening. If while closing, the movement stops.
			12*	Input configured as Bar CL, safety edge with inversion active only while closing. If while opening, the movement stops.
			13*	Input configured as Bar CL TEST, safety edge tested with inversion active only while closing. If while opening, the movement stops.
			14*	Input configured as Bar CL 8k2, safety edge with inversion active only while closing. If while opening, the movement stops.
Ic 1	**Configuration of command input IC 1. 61**	0	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**	4	4	Input configured as Ped.
			5	Input configured as Timer.
			6	Input configured as Timer Pedestrian.
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.
AUX 3	**Configuration of AUX 3 output. 26-37**	0	4	Output configured as Stair Light
			5	Output configured as Alarm
			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.
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.

Logic	Definition	Default	Cross out setting used	Optional extras
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.R)
			3	MASTER opposite leaves in local network: the control unit is the master in an opposite leaves network with no smart module (fig.R)
AddrESS	**Address**	0	[___]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)
EXP I I	**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 Ped 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 safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.
			12*	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.
			13*	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.
			14*	Input configured as Phot op test safety, tested photocell active only while opening. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1
			15*	Input configured as Phot cl test safety, tested photocell active only while closing. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1
			16*	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.
			17*	Input configured as safety Bar OP test, safety edge with inversion active only while opening, if while closing the movement stops. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			18*	Input configured as safety Bar CL test, safety edge with inversion active only while closing, if while opening the movement stops. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.

Logic	Definition	Default	Cross out setting used	Optional extras
EHP i2	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 Ped 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 safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.
			12*	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.
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.
EHPo2	Configuration of EXPO2 output on input-output expansion board 6-7	11	5	Output configured as Alarm.
			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.
trAFFic LiGht PrEFLASh inG.	Traffic light pre-flashing	0	0	Pre-flashing switched off.
			1	Red lights flash, for 3 seconds, at start of operation.
trAFFic LiGht rEd LAMP ALWAYS on	Steadily lit red light	0	0	Red lights off when gate closed.
			1	Red lights on when gate closed.

*** Only active on FW ≥ 2.10**

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. If no output is configured as 2nd Radio Channel Output, the 2nd radio channel controls the pedestrian opening.
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.