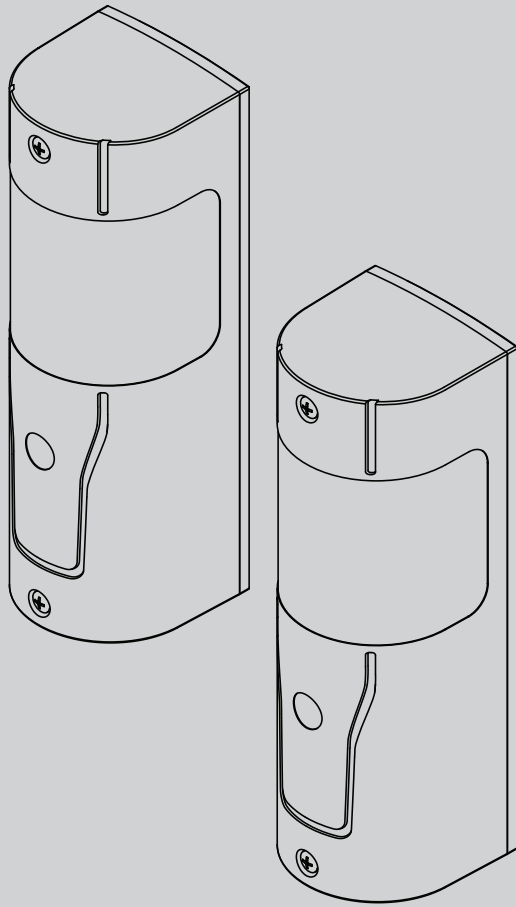




D811992.00100_0113-03-13

FOTOCOSTA
PHOTOCELL SAFETY EDGE
LINTEAU PHOTOCELLULE
FOTOLEISTE
CANTO CON FOTOCÉLULA
FOTOGEVOELIGE RAND

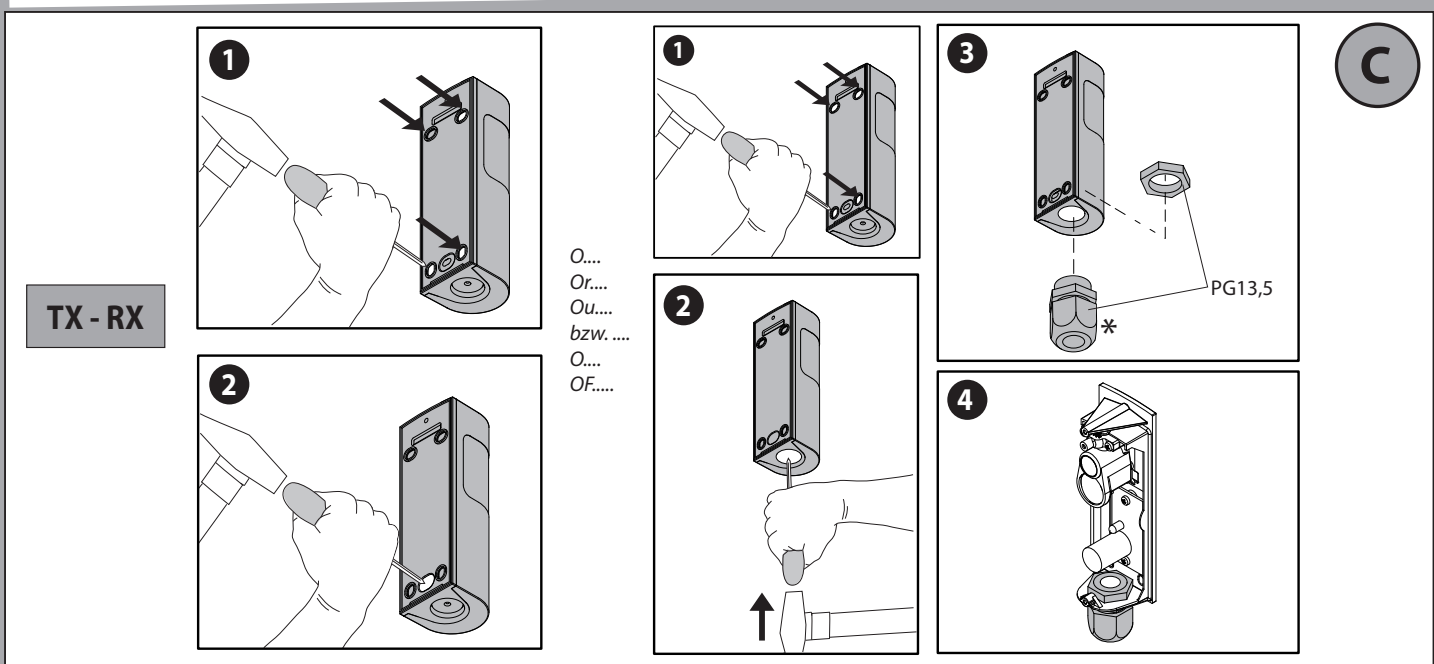
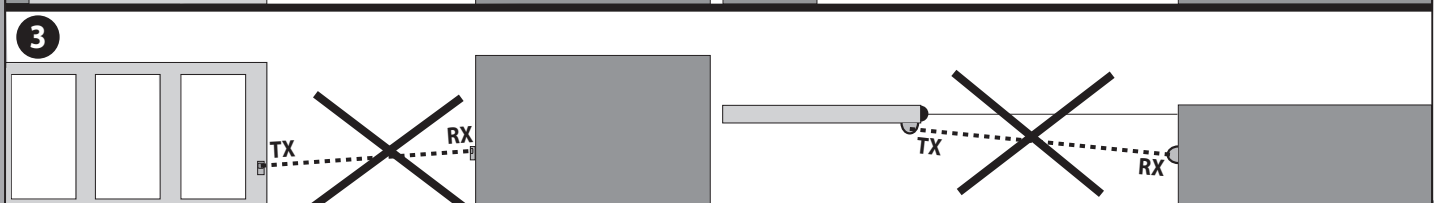
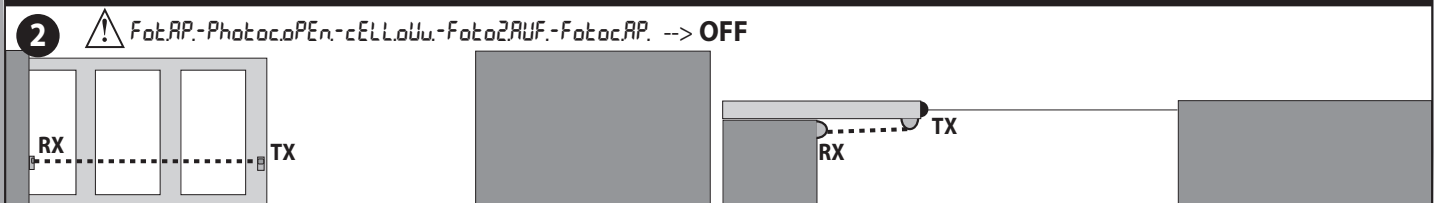
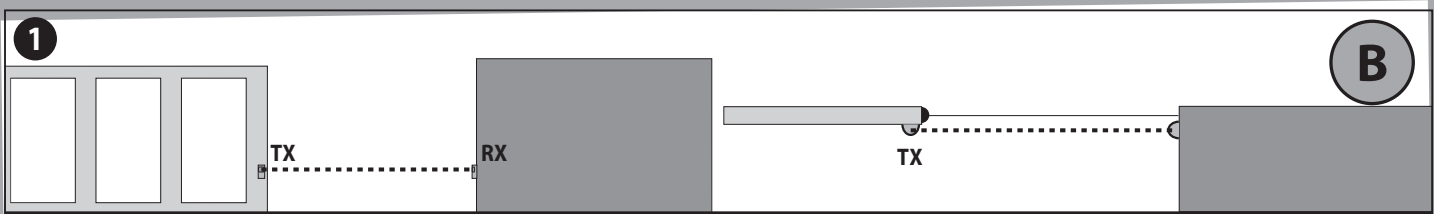
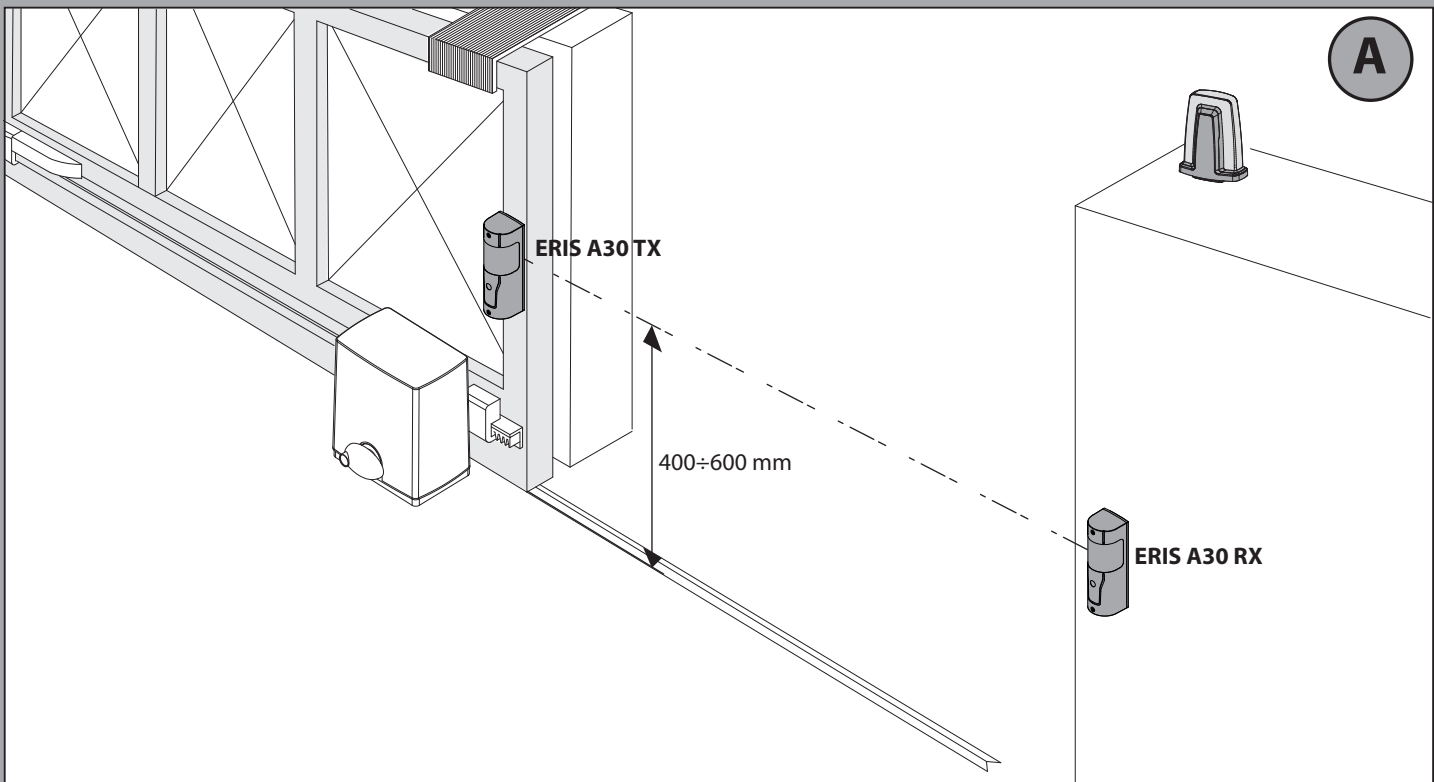


ISTRUZIONI DI INSTALLAZIONE
INSTALLATION MANUAL
INSTRUCTIONS D'INSTALLATION
MONTAGEANLEITUNG
INSTRUCCIONES DE INSTALACION
INSTALLATIEVOORSCHRIFTEN

ERIS A30

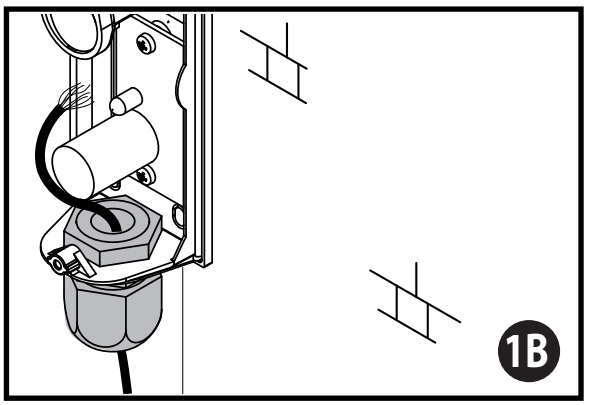
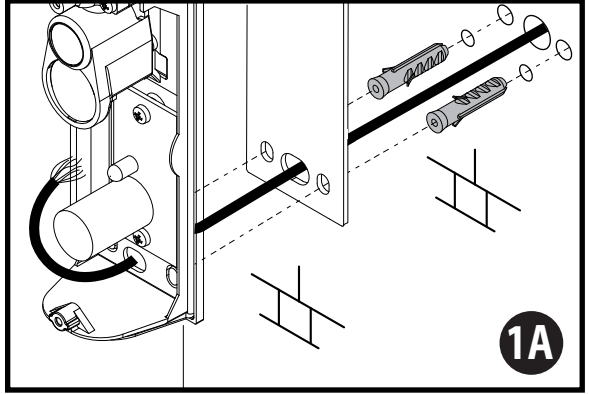
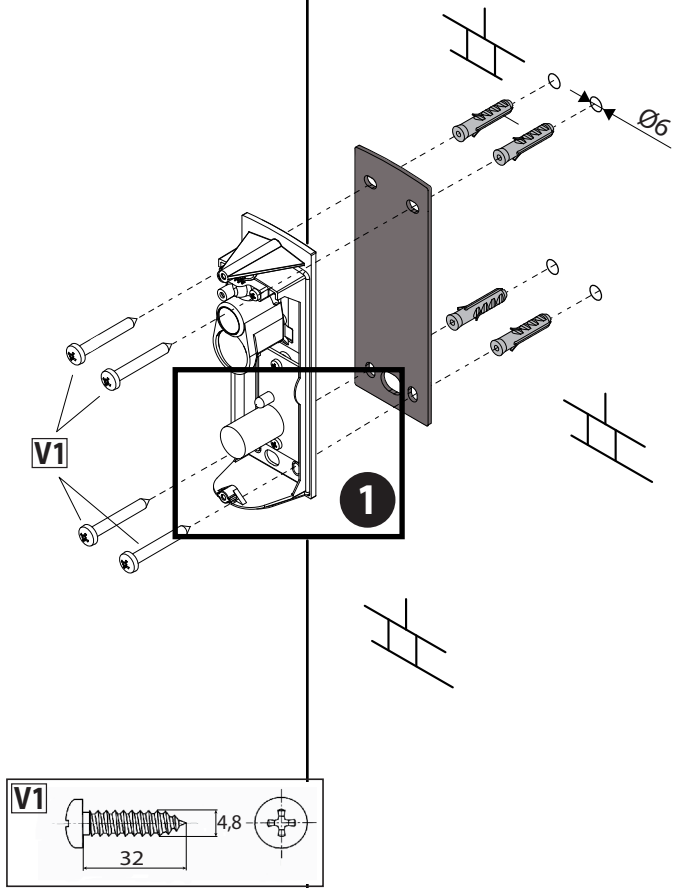


AZIENDA CON SISTEMA DI GESTIONE
INTEGRATO CERTIFICATO DA DNV
= UNI EN ISO 9001:2008 =
UNI EN ISO 14001:2004



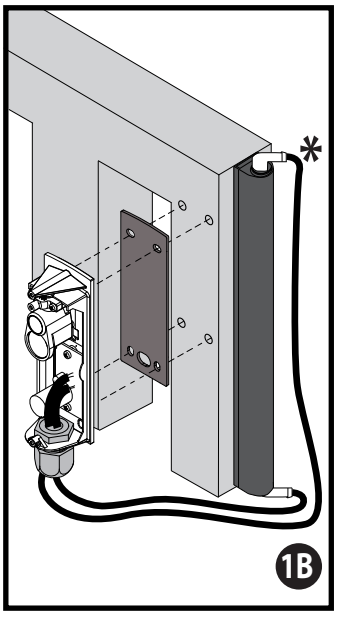
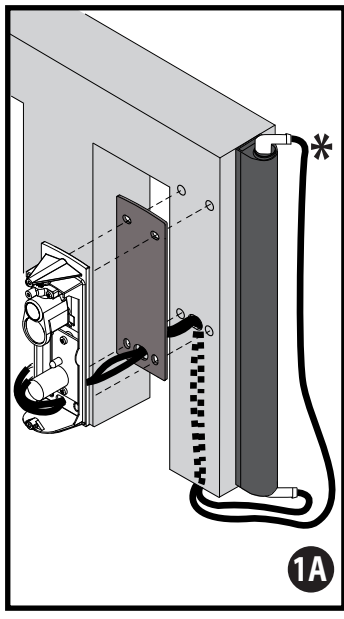
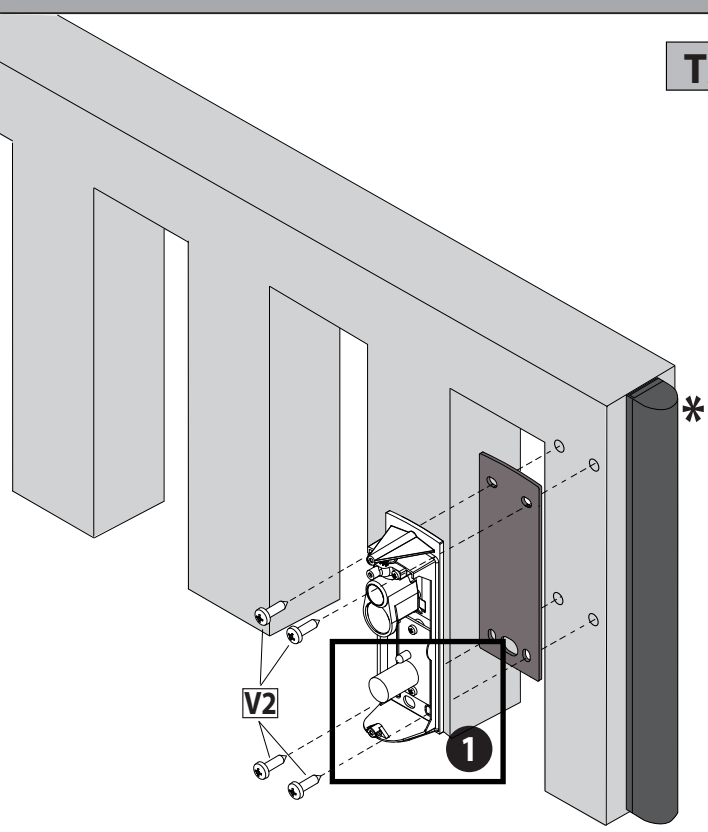
RX

D



TX

E



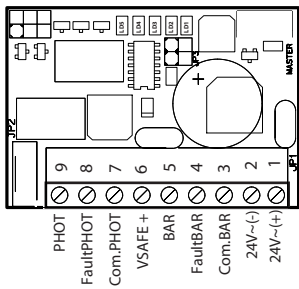
* Non in dotazione / Not supplied /
 Ne sont pas fournis / Nicht im Lieferumfang /
 No asignadas en el equipamiento base/ Niet meegeleverd.

VERIFICATE / TESTED / VERIFIEES / ÜBERPRÜFT / COMPROBADAS / TRUSTED

F

1

Con funzione di fotocellula verificata.
With tested safety edge and photocell feature.
Avec fonction de ligneau et de photocellule vérifiées.
Mit überprüfter Funktion Leiste und Fotozelle.
Con función de canto y fotocélula comprobadas.
Met functie van rand en fotocel als "trusted devices".



Ø 9 X 0,50

1A

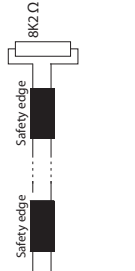
Selezionare Costa Ottica - Posizione A -
Optical safety edge setting - Position A -
Sélection Ligneau optique - Position A -
Auswahl optische Leiste - Position A -
Auswahl Canto óptico - Posite A -
Selectie Optische rand - Posite A -

Con costa ottica.
With optical safety edge.
Avec ligneau optique.
Mit optischer Leiste.
Con canto óptico.
Met optische rand.

- Marrone Sensore RX *1
- Verde Sensore RX *2
- Bianco Sensore RX *3
- Bianco Sensore TX *4
- Marrone Sensore TX *4

1B

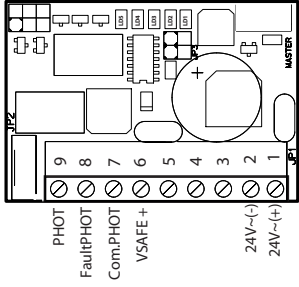
Con costa 8K2.
With 8K2 safety edge.
Avec ligneau 8K2.
Mit Leiste 8K2.
Con canto 8K2.
Met rand 8K2.



Selezione Resistiva - Posizione B -
Resistive setting - Position B -
Sélection Résistif - Position B -
Auswahl Widerstand - Position B -
Selección Resistiva - Posición B -
Selectie Resistief-Positie B -

2

Con funzione di fotocellula verificata.
With tested photocell feature.
Avec fonction de photocellule vérifiée.
Mit überprüfter Funktion Fotozelle.
Con función de fotocélula comprobada.
Met functie van fotocel als "trusted device".



Ø 6 X 0,50

* Brown RX sensor, Marron capteur RX, Braun Sensor RX, Marrón sensor RX, Bruin sensor RX.

*1 Green RX sensor, Vert capteur RX, Grün Sensor RX, Verde sensor RX, Groen sensor RX.

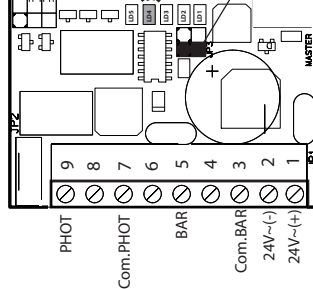
*2 White RX sensor, Blanc Capteur Px, Weiß Sensor RX, Blanco Sensor RX, Wit sensor RX.

*3 White TX sensor, Blanc Capteur Tx, Weiß sensor TX, Bianco sensor TX, Wit sensor TX.

*4 Brown TX sensor, Marron Capteur Tx, Braun Sensor TX, Marrón Sensor TX, Bruin sensor TX.

3

Con funzione di fotocellula e coste non verificate.
With non-tested photocell and safety edges feature.
Avec fonction de photocellules et cotes non vérifiées.
Mit Funktion nicht überprüfte Fotozellen und Leisten.
Con función de fotocélula y cantos no comprobados.
Met functie van fotocel en randen anders dan "trusted device".



Ø 6 X 0,50

3A

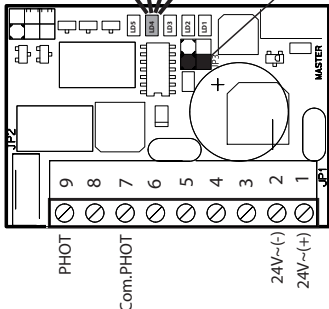
Selezionare Costa Ottica - Posizione A -
Optical safety edge setting - Position A -
Sélection Ligneau optique - Position A -
Auswahl optische Leiste - Position A -
Auswahl Canto óptico - Posite A -
Selectie Optische rand - Posite A -

Con costa ottica.
With optical safety edge.
Avec ligneau optique.
Mit optischer Leiste.
Con canto óptico.
Met optische rand.

- Marrone Sensore RX *1
- Verde Sensore RX *2
- Bianco Sensore TX *3
- Marrone Sensore TX *4

4

Con funzione di fotocellula non verificata.
With non-tested photocell feature.
Avec fonction de photocellule non vérifiée.
Mit nicht überprüfter Funktion Fotozelle.
Con función de fotocélula no comprobada.
Met functie van fotocel anders dan "trusted device".

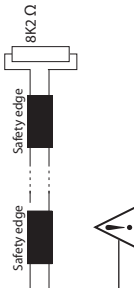


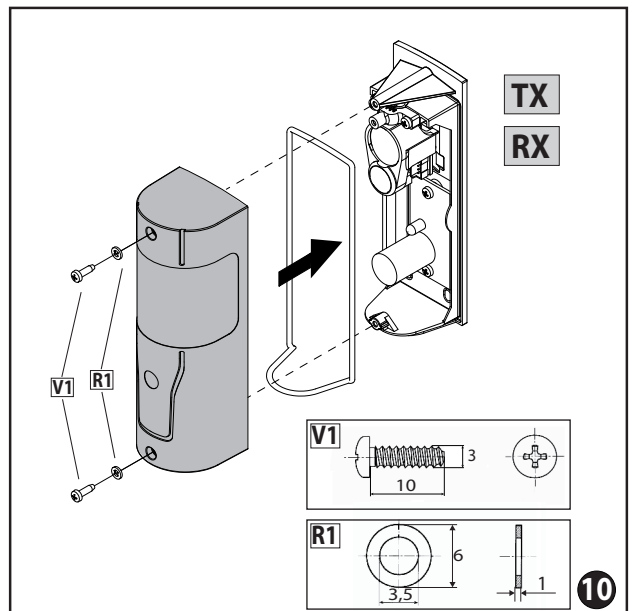
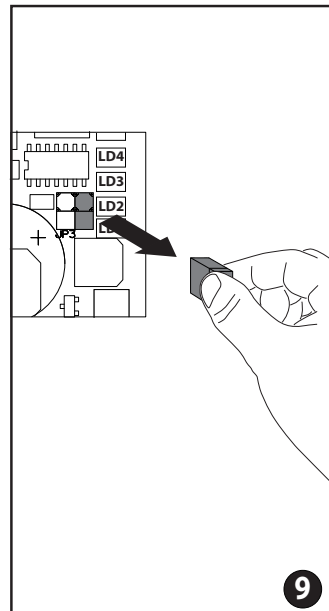
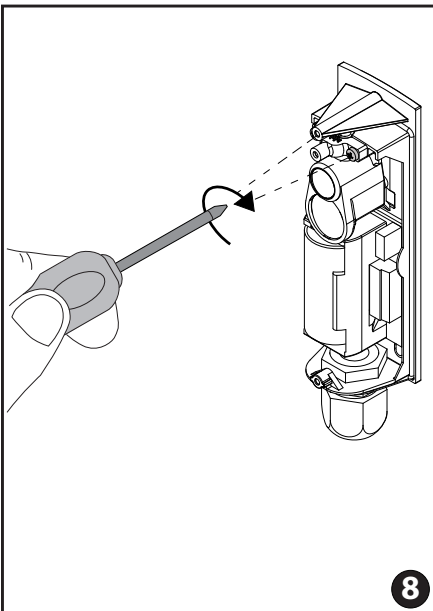
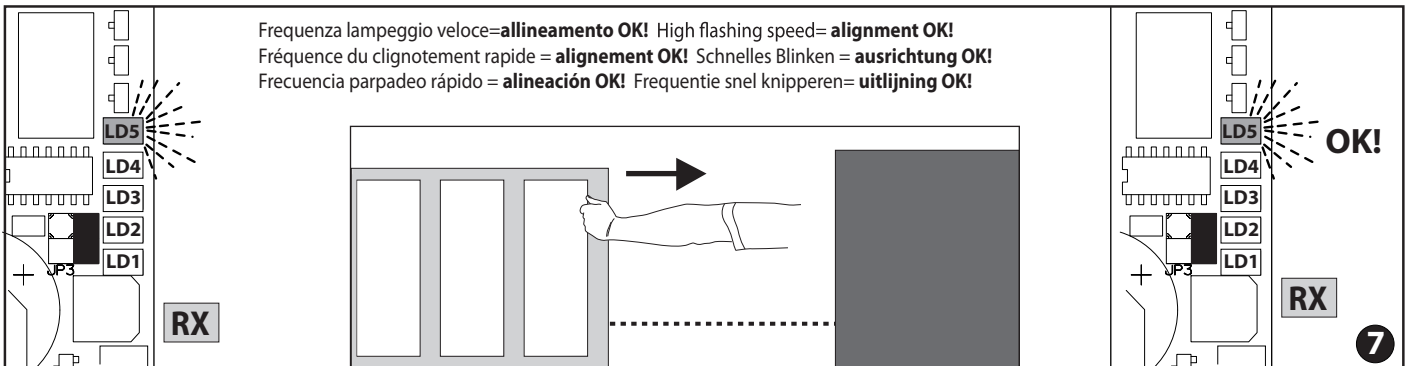
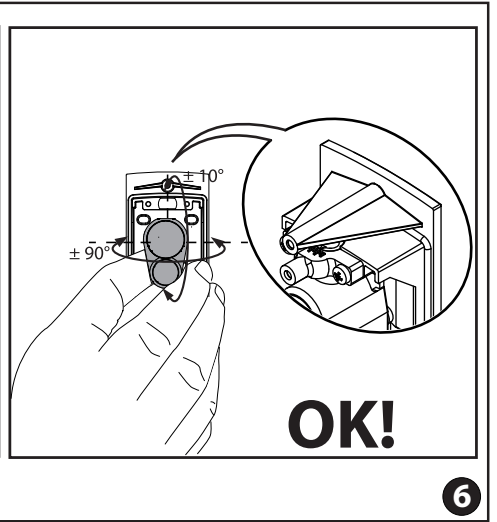
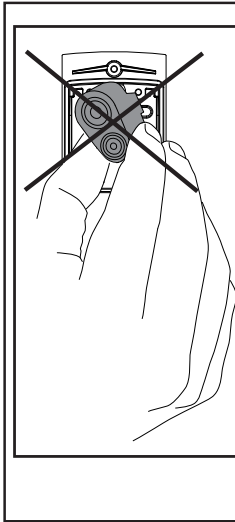
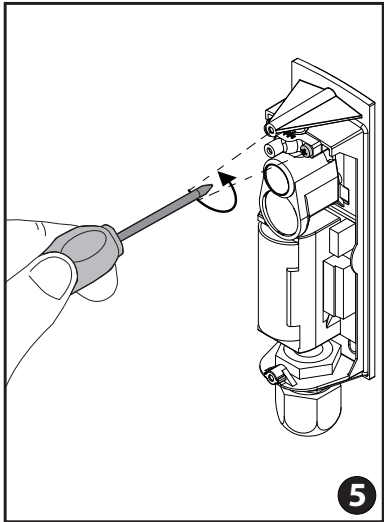
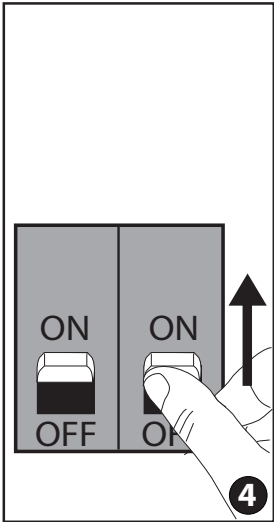
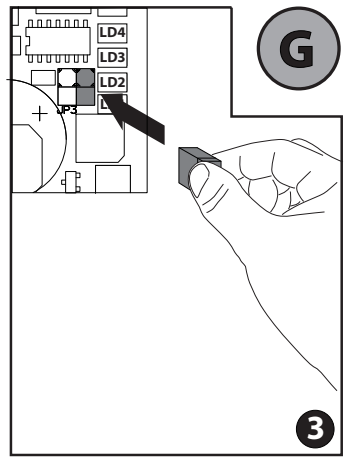
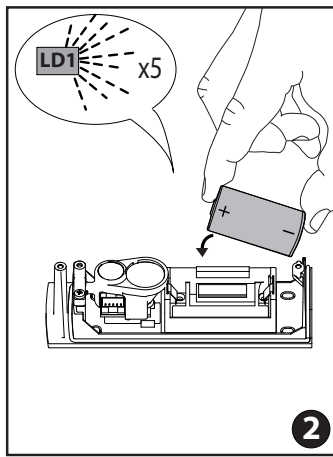
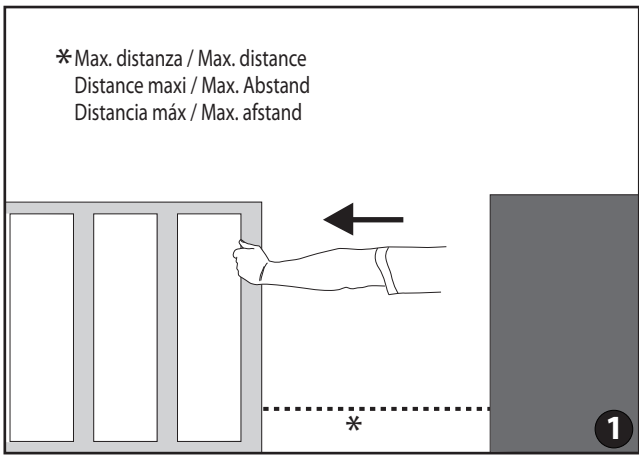
Ø 4 X 0,50

3B

Selezionare Resistiva - Posizione B -
Resistive setting - Position B -
Sélection Résistif - Position B -
Auswahl Widerstand - Position B -
Auswahl Canto óptico - Posite B -
Selectie Resistief-Positie B -

Con costa 8K2.
With 8K2 safety edge.
Avec ligneau 8K2.
Mit Leiste 8K2.
Con canto 8K2.
Met rand 8K2.

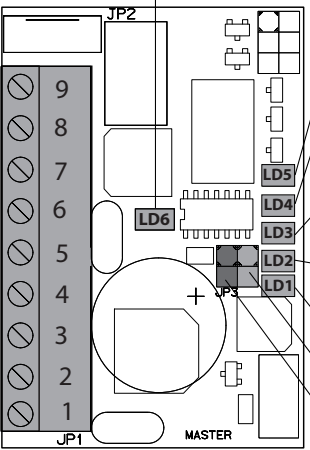






RX

- FOTOCPELLULA (a riposo)* N.O. 9
- N.C. 8
- FOTOCPELLULA*1 COM 7
- VSAFE 6
- COSTA(a riposo)*2 N.O. 5
- N.C. 4
- COSTA COM 3
- 24V~/ - 24V 2
- 24V~/ + 24V 1



LED segnalazione batteria scarica. / Battery low warning LED.
 Del de signalisation que la batterie est déchargée / LED Anzeige Batterie leer.
 Led señalización batería descargada / Signaleringsled lege batterij.
 Centratra / Centring / Centrage / Zentrierung / Centrado / Centring.

LED di segnalazione modalità di funzionamento. Spento: verificata. Acceso: non verificata.
 Operating mode indicator LED. Unlit: tested. Lit: not tested.
 Voyant de signalisation mode de fonctionnement. Eteint : vérifiée. Accès : non vérifiée.
 LED Anzeige Funktionsweise. Aus: geprüft. An: Nicht geprüft.
 Del de señalización modo de funcionamiento. Apagado: comprobada. Encendido: no comprobada.
 Signalerings-led werkingwijze. Uitgeschakeld: trusted. Ingeschakeld: niet trusted.

LED segnalazione Stato costa. / Safety edge status indicator LED. Del de signalisation de l'état du linteau.
 LED Anzeige Status Leiste. / Led señalización estado canto. / Signaleringsled status rand.

LED segnalazione Stato fotocellula. / Photocell status indicator LED.
 Led de signalisation de l'état de la Photocellule. / LED Anzeige Status Fotozelle.
 Led señalización Estado fotocélula. / Signaleringsled Status fotocel.

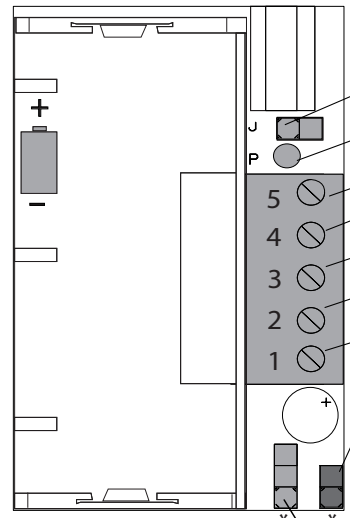
Presenza tensione, accesso con alimentazione presente. / Power indicator, lit when power is on.
 Présence de tension, allumé avec alimentation présente. / Spannung vorhanden, Zugang bei vorhandender
 Speisung. / Presencia tensión, encendido con alimentación presente.
 Aanwezigheid spanning, ingeschakeld bij aanwezige spanning.

Ponticello centratra. / Centring jumper. / Pont centrage. / Jumper Zentrierung. / Puente centrado. /
 Brug centring.

Ponticello di segnalazione modalità di funzionamento. Aperto: verificata. Chiuso: non verificata.
 Operating mode indicator jumper. Open: tested. Closed: not tested.
 Pont de signalisation mode de fonctionnement. Ouvert : vérifiée. Fermé : non vérifiée.
 Jumper Anzeige Funktionsweise. Offen: geprüft. Geschlossen: Nicht geprüft.
 Puente de señalización modo de funcionamiento. Abierto: comprobada. Cerrado: no comprobada.
 Signaleringsbrug werkingwijze. Open: trusted. Dicht: niet trusted.

* PHOTOCCELL (on standby), PHOTOCCELLULE (au repos), FOTOCZELLE (in Ruhstellung), FOTOCÉLULA (en repos), FOTOCCEL (in ruststand).
 *1 PHOTOCCELL, PHOTOCCELLULE, FOTOCZELLE, FOTOCÉLULA, FOTOCCEL.
 *2 (on standby), (au repos), (in Ruhstellung), (en repos), (in ruststand).

TX



JP1: Aperto portata 15m. Chiuso Portata 30m. / Open range 15m. Closed Range 30m. Ouvert portée 15m. Fermé Porte 30m.
 Offen Reichweite 15m Geschlossen Reichweite 30m. Abierto capacidad 15m. Cerrado Capacidad 30m. / Open reikwijdte 15m. Dicht Reikwijdte 30m.

LED segnalazione inserimento batteria. / Battery power ON indicator LED. / DEL de signalisation engagement batterie.
 LED Anzeige Einschaltung Batterie. / LED señalización activación batería. / Signaleringsled plaatsing batterij.

Marrone Sensore Ottico RX. / Brown RX Optical Sensor / Marron Capteur Optique Rx Braun Sensor Optik RX. / Marrón Sensor Óptico RX. / Bruin Optische Sensor RX.
 Verde Sensore Ottico RX. / Green RX Optical sensor. / Vert Capteur Optique Rx. Grün Sensor Optik RX. / Verde Sensor óptico RX. / Groen Optische sensor RX.

Bianco Sensore Ottico RX. / White RX Optical Sensor. / Blanc Capteur Optique Rx. Weiß Braun Sensor Optik RX. / Blanco Sensor Óptico RX. / Wit Optische Sensor RX.

Bianco Sensore Ottico TX-Costa resistiva 8k2. / White TX Optical Sensor-8K2 resistive safety edge. / Blanc Capteur Optique Tx - Linteau résistif 8K2. /
 Weiß Sensor Optik TX-Widerstandsleiste 8K2. / Blanco Sensor Óptico TX-Canto resistivo 8K2. / Wit Optische Sensor TX-Resistieve rand 8K2.

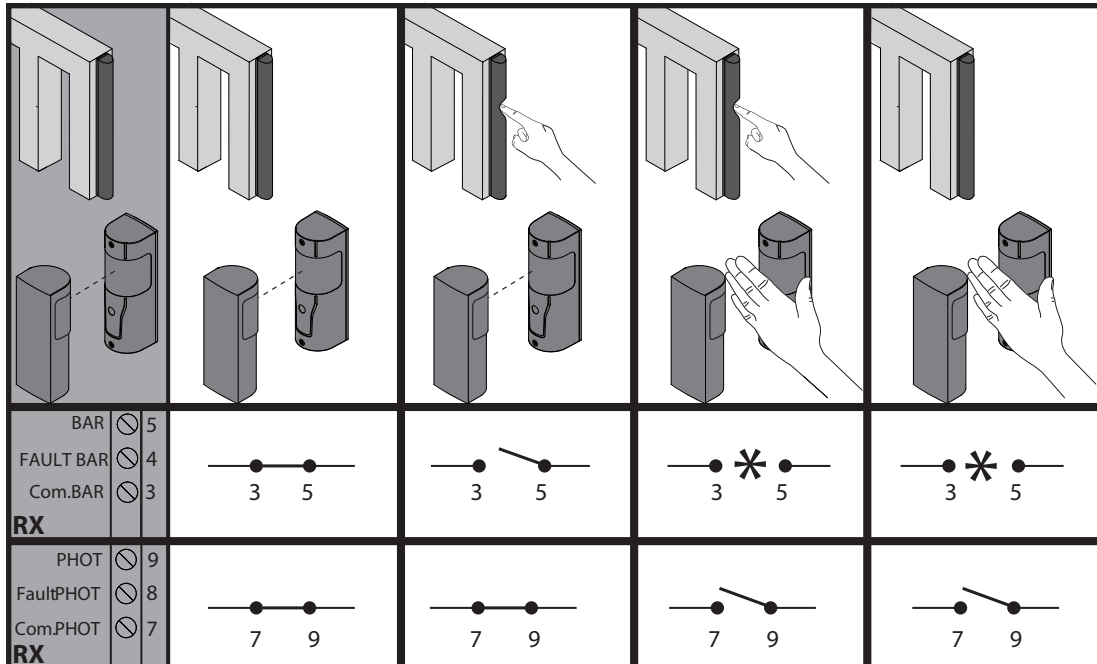
Marrone Sensore Ottico TX-Costa resistiva 8k2. / Brown TX Optical Sensor-8K2 resistive safety edge. / Marron Capteur Optique Tx - Linteau résistif 8K2. /
 Braun Sensor Optik TX-Widerstandsleiste 8K2. / Marrón Sensor Óptico TX-Canto resistivo 8K2. / Bruin Optische Sensor TX-Resistieve rand 8K2.

Ponticello di segnalazione modalità di funzionamento. Aperto: verificata. Chiuso: non verificata.
 Operating mode indicator jumper. Open: tested. Closed: not tested.
 Pont de signalisation mode de fonctionnement. Ouvert : vérifiée. Fermé : non vérifiée.
 Jumper Anzeige Funktionsweise. Offen: geprüft. Geschlossen: Nicht geprüft.
 Puente de señalización modo de funcionamiento. Abierto: comprobada. Cerrado: no comprobada.
 Signaleringsbrug werkingwijze. Open: trusted. Dicht: niet trusted.

JP2: (Fig.F Rif.1A-3A) Posizione A-Costa ottica. / Position A-Optical safety edge. / Position A - Linteau Optique.
 Position A-Optische Leiste. / Posición A-Canto Óptico. / Positie A-Optische Rand.

JP2: (Fig.F Rif.1B-3B) Posizione B-Costa resistiva 8K2. / Position B-8K2 resistive safety edge. / Position B - Linteau résistif 8K2.
 Position B-Widerstandsleiste 8K2. / Posición B-Canto resistivo 8K2. / Positie B-Resistieve rand 8K2.

* I ponticelli devono essere configurati prima di inserire la batteria. Jumpers must be set before the battery is inserted.
 Les ponts doivent être configurés avant d'introduire la batterie. Die Jumper müssen vor dem Einsetzen der Batterie konfiguriert werden.
 Los puentes deben ser configurados antes de conectar la batería. De bruggen moeten geconfigureerd worden, alvorens de batterij te plaatsen.



* Stato invariato, Previous state resumed, Etat d'origine, Zustand unverändert, Estado inalterado, Status ongewijzigd.

AVVERTENZE D'USO E D'INSTALLAZIONE

Nel ringraziarVi per la preferenza accordata a questo prodotto, la Ditta è certa che da esso otterrete le prestazioni necessarie al Vostro uso. Leggete attentamente l'opuscolo "Libretto istruzioni" che lo accompagna in quanto esso fornisce importanti indicazioni riguardanti la sicurezza, l'installazione, l'uso e la manutenzione.

Questo prodotto risponde alle norme riconosciute della tecnica e delle disposizioni relative alla sicurezza. Confermiamo che esso è conforme alle seguenti direttive europee: 2004/108/CEE.

Il dispositivo è di tipo C secondo EN12453-5.5.1 può essere utilizzato anche come rilevatore di presenza, quindi come dispositivo di tipo D secondo EN12453, in entrambi i modi di utilizzo esso risulta conforme alla direttiva 2006/42/CEE solo se collegato a un quadro di controllo del medesimo costruttore dotato di circuito di verifica di guasto nei circuiti di sicurezza e ad un elemento sensibile conforme.

ATTENZIONE:

- nelle operazioni di cablaggio ed installazione riferirsi alle norme vigenti e in ogni caso ai principi di buona tecnica.
- modifiche al dispositivo o alla configurazione dell'apparato senza la consultazione del fabbricante possono determinare situazioni di pericolo.

USO DEL DISPOSITIVO

Tenere le aree che danno accesso al dispositivo di sicurezza libere da ostacoli. In particolare controllare che rami e arbusti non interrompano il raggio emesso dalla trasmittente. Nel caso di intervento del dispositivo di sicurezza non sono necessarie operazioni di riarmo o riattivazione in quanto il ripristino del normale funzionamento del cancello avverrà automaticamente.

MANUTENZIONE E DEMOLIZIONE



Su ERIS A30 RX è presente un led LD6 di segnalazione batteria scarica, quando il led LD6 inizia a lampeggiare ERIS A30 TX ha circa un mese di autonomia, provvedere alla sostituzione della batteria. Quando il dispositivo è collegato a un quadro di controllo del medesimo costruttore dotato di circuito di verifica di guasto nei circuiti di sicurezza non necessita di manutenzione in quanto il controllo viene eseguito automaticamente ad ogni manovra (intervalli di prova in conformità all'analisi di rischio o EN12453). Nel caso non si utilizzi il circuito di verifica di guasto nei circuiti di sicurezza bisogna far verificare da personale qualificato la funzionalità del dispositivo ad intervalli non maggiori di 6 mesi.

I materiali costituenti l'apparecchiatura e il suo imballo vanno smaltiti secondo le norme vigenti. In caso di mal funzionamento rivolgersi a personale qualificato.

Tutte le operazioni di regolazione, sia meccaniche che elettriche, devono essere eseguite solo da personale autorizzato in accordo con le regole di sicurezza e con le istruzioni del fabbricante. Si raccomanda di verificare periodicamente:

- che la costa sensibile non presenti danni o deformazioni permanenti; diversamente far sostituire da personale qualificato;
- che il LED di segnalazione di batteria scarica (LD6) non lampeggi; per la sostituzione si faccia riferimento alla tabella 2) e al precedente paragrafo;
- che la marcatura del dispositivo sia presente e sia leggibile;

Nel caso in cui eccessivo sporco si depositi sulla superficie delle fotocellule pulire con un panno le lenti della fotocellula.

AVVERTENZE

Il buon funzionamento è garantito solo se vengono rispettati i dati riportati in questo manuale. La Ditta non risponde dei danni causati dall'inosservanza delle norme di installazione e delle indicazioni riportate in questo manuale.

Le descrizioni e le illustrazioni del presente manuale non sono impegnative. Lasciando inalterate le caratteristiche essenziali del prodotto, la Ditta si riserva di apportare in qualunque momento le modifiche che essa ritiene convenienti per migliorare tecnicamente, costruttivamente e commercialmente il prodotto, senza impegnarsi ad aggiornare la presente pubblicazione.

- La dichiarazione di conformità può essere consultata sul sito: www.bft.it nella sezione prodotti.

OPERATING AND INSTALLATION INSTRUCTIONS

Thank you for buying this product. Our company is sure that you will be more than satisfied with the product's performance.

Carefully read the "INSTRUCTION BOOKLET" which is supplied together with this product, since they provide important information regarding the safety, installation, use and maintenance of the product.

This product complies with recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 2004/108/EEC.

This is a type C device according to EN 12453-5.5.1. It can also be used as a presence detector, hence as a type D device according to EN 12453. For both purposes, it will only be in conformity with directive 2006/42/EEC provided it is connected to a control panel from the same manufacturer equipped with a test circuit that looks for faults in the safety circuits and with a conforming safety edge.

WARNING:

- when carrying out connection and installation operations always refer to the current legislation in force, as well as to good technical principles.
- making changes to the device or to the unit's configuration without consulting the manufacturer may result in hazardous situations.

USING THE DEVICE

Keep areas that lead to the safety device clear of obstacles. More specifically, make sure that no branches or shrubs break the beam emitted by the transmitter. If the safety device is triggered, no resetting or re-enabling is required since the gate's regular operation will be restored automatically.

MAINTENANCE AND SCRAPPING



ERIS A30 RX features a battery low warning LED LD6. When LD6 starts flashing, it means ERIS A30 TX has about one month's battery life left: replace the battery. When the device is connected to a control panel from the same manufacturer, provided with a fault-finding circuit in safety circuits, it requires no maintenance, since testing is carried out automatically with each manoeuvre (test intervals conforming to risk analysis or EN12453). In the case where the fault-finding circuit in safety circuits is not used, get qualified personnel to check the device function at intervals not longer than 6 months. The materials making up the appliance and its packing must be disposed of according to current regulations.

In case of malfunction, request the assistance of qualified personnel.

All adjustments, whether mechanical or electrical, must be carried out by authorized personnel only in accordance with the safety rules and instructions issued by the manufacturer. You are advised to check at regular intervals:

- that the safety edge is not damaged or permanently misshapen; otherwise, have it replaced by qualified personnel;
- that the battery low warning LED (LD6) is not flashing; refer to table 2) and the previous section for replacement instructions;
- that the device features legible markings;

If excessive amounts of dirt build up on the surface of the photocell, clean the photocell lenses with a cloth.

WARNING!

Correct operation is only ensured when the data contained in the present manual are observed. The company is not to be held responsible for any damage resulting from failure to observe the installation standards and the instructions contained in the present manual.

The descriptions and illustrations contained in the present manual are not binding. The Company reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving the essential product features unchanged, at any time and without undertaking to update the present publication.

- The declaration of conformity can be viewed on this website: www.bft.it in the product section.

1) FOREWORD

ERIS A30 is a device that can be used on sliding gates and provides a solution to the problem of connecting safety edges located on the moving leaf with the door's control unit. ERIS A30 comprises two transceiver units that communicate with each other through infrared signals. Communication is coded using special safety techniques so that the whole device gets a category 2 fault detection rating according to standard EN 954-1 and can therefore be used in PSPE systems in conformity with standard EN 12978. ERIS A30 comprises 2 units:

- **ERIS A30 TX**, which is powered by a long-life battery, should be attached to the moving leaf and can be connected with the safety edge, which can either be optical (using the STR accessory = rubber profile max. 2.5m) or resistive with a constant 8k2 resistance.

- **ERIS A30 RX** should be attached to the fixed part and is wired to the gate's control unit.

ERIS A30 is designed to be connected as a tested device. In addition to working as a connection system between a safety edge and the control unit, the device can also be used as a presence detector and hence as a category D device according to standard EN 12453. To use ERIS A30 as a type D device, ERIS A30 TX and ERIS A30 RX merely have to communicate across the opening (**See Fig. B Ref.1**).

2) TECHNICAL SPECIFICATIONS (SPECIFICATIONS AT 20°C)

ERIS A30 TX	
Power supply	3.6V Type C lithium battery. Capacity 7.5Ah
Battery life	Wiring with test: up to 5 years <i>(Life estimated based on installation with 4m travel at speed of 9 m/min, TCA 10 S, 30 operations/day with optical safety edge up to 2.5 m and temperature of +20°C).</i> Wiring with no test: up to 1 year
Response time from when safety edge is pressed in tested mode	<35mS
Response time from when safety edge is pressed in non-tested mode	<100mS
ERIS A30 RX	
Supply voltage	24 V~/=
Current demand	Standby 20mA / max. 36mA
Contact capacity	30V, 1A
ERIS A30 TX + ERIS A30 RX	
Protection rating	IP45
Operating temperature	-20/+55°C
Max range (reduced in case of fog/rain)	15 m with jumper JP1 open TX, 30 m with jumper JP1 closed TX
Dimensions	130X45X43 (HxLxD)
Category according to EN 954-1	Cat 2

3) CORRECT ALIGNMENT Fig. A - B

4) HOLES FOR INSTALLATION Fig. C

5) RUNNING ERIS A30 RX (Fig. D) and ERIS A30 TX (Fig. E) CABLES:

- through hole in back **Ref. 1A**
- through cable clamp **Ref. 1B**

Fasten the safety edge to the edge of the leaf following the directions given in the instruction manual for the safety edge being used.

6) WIRING Fig. F

If no safety circuit fault test circuit is being used, qualified personnel must be brought in to check that the device is in proper working order at least once every 6 months.

7) INSPECTION Fig. G-H

- Once inspection is complete, perform a few test cycles and check that:
- a) When the safety edge is pressed, the automated system reacts as it should.
 - b) When communication is broken between ERIS A30 RX and ERIS A30 TX by placing an obstacle between them, the automated system reacts as it should.
 - c) When the previous 2 operating conditions are not encountered, the operation is completed correctly.

8) WARNING! If the installation situation differs from the one featured in the manual, refer to operation table 1. Also make sure that the gate does NOT CREATE hazardous situations when it moves. **See TABLE Fig.I.**

WARNING!

To connect the relay contacts to the fault test circuit, you must refer to the wiring diagrams of the tested devices given in the instruction manual for the control unit being used.

WARNING!

If other devices using infrared beams (photocells) are present, they may interfere with communication. In the event a number of pairs of photocells are installed in the same area, check that there is no interference between them. In the event the ERIS A30 communication signal is affected by interference from another ERIS A30 infrared signal, switch the automated system to a safe state by opening both contacts.

9) SAFETY EDGE THAT CAN BE CONNECTED TO ERIS A30 TX

OPTICAL SAFETY EDGE	
Sensors	STR
Maximum safety edge length	2,5m
RESISTIVE SAFETY EDGE	
Rated resistance	8k2
Upper trigger threshold	>22000 Ω
Maximum standby resistance	18000 Ω
Lower trigger threshold	< 2200 Ω
Minimum standby resistance	4700 Ω

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