

CE



Photocells

F210

Installation instructions and warnings

Istruzioni ed avvertenze per l'installatore

Instructions et avertissements pour l'installateur

Anweisungen und Hinweise für den Installateur

Instrucciones y advertencias para el instalador

Aanwijzingen en aanbevelingen voor de installateur

Instrukcje i ostrzeżenia dla instalatora

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=



1) Warnings

This manual contains important information regarding safety during installation, therefore before starting installation, it is important that you read all the information contained herein. Store this manual in a safe place for future use.

Due to the dangers which may arise during both the installation and use of the F210, installation must be carried out in full respect of the laws, provisions and rules currently in force in order to ensure maximum safety.

According to the most recent European legislation, the automation of a door or gate is governed by the provisions listed in Directive 98/37/CE (Machine Directive) and, more specifically, to provisions: EN 13241-1 (harmonized standard); EN 12445; EN 12453 and EN 12635, which enable to declare the conformity of the product to the machine directive.

Further information, risk analysis guidelines and how to draw up the Technical Documentation is available at: www.niceforyou.com. This manual has been especially written for use by qualified fitters, none of the information provided in this manual can be considered as being of interest to end users!

- The use of F210 which is not explicitly provided for in these instructions is not permitted. Improper use may cause damage and personal injury.

- Do not modify any components unless such action is specified in these instructions. Operations of this kind are likely to lead to malfunctions. NICE disclaims any liability for damage resulting from modified products
- F210 must only function through TX-RX direct interpolation. Use through reflection is prohibited.
- F210 must be secured to a solid and vibration free surface.
- Use suitable conductors for the electrical connections as specified in the "installation" chapter.
- Make sure that the electrical power supply and the other use parameters correspond to the values indicated in "technical characteristics" table.

Particular warnings concerning the suitable use of this product in relation to the 89/336/EEC "Electromagnetic Compatibility" Directive and subsequent modifications 92/31/EEC and 93/68/EEC: This product has been subjected to tests regarding the electromagnetic compatibility in the most critical of use conditions, in the configurations foreseen in this instructions manual and in combination with articles present in the Nice S.p.a. product catalogue. The electromagnetic compatibility may not be guaranteed if used in configurations or with other products that have not been foreseen; the use of the product is prohibited in these situations until the correspondence to the requirements foreseen by the directive have been verified by those performing the installation.

2) Product description and applications

The F210 directional photocells are presence detectors (type D according to the EN12453 standard) that can be used in gate, door and similar automation systems, which allow the detection of obstacles present on the optical axis between the transmitter (TX) and the receiver (RX).

Because the F210 photocells have a horizontal scope of 210° and a vertical scope of 30°, they can also be applied on uneven surfaces where the correct alignment between TX and RX is not possible (see fig. 1). An additional vandal-proof metal container is also available on request, code FA1.

3) Installation

⚠ The system must be disconnected from the mains power supply during installation. If buffer batteries are present, these must also be disconnected.

Check the following points before proceeding with the installation:

1. If the photocells have a 12V power supply, a solder jumper must be made between the two "12V" points on the weld side of the TX and of the RX (see details A and B of fig. 2). To access the jumpers, separate the electronic board from the base using a screwdriver to lever the three clips as indicated in fig. 9.
2. If the distance between TX and RX is greater than 10 m, cut the jumper between the points ">10m" of the RX, as indicated in detail C of fig. 2.
3. The TX transmitter of the photocell emits a beam with an angle of approximately 8°. If there are two devices close to one another the beam could interfere with the other receiver (fig. 3 and fig. 4) thereby not guaranteeing an adequate level of safety. In order to rectify this

problem, a synchronism system can be implemented that allows two pairs of photocells to function alternately, if an alternating current power supply is available. In order to use this system the "SYNC" synchronism jumper on the two TX must be cut (see detail D of fig. 2) and the first pair of photocells (TX and RX) must be supplied with the phases inverted in relation to the second pair (see fig. 5).

4. Depending on the type of installation, the cable can be introduced either from the base or from the lower edge. In this case a "PG9" type cable clip must be added (as shown in fig. 6 and 7).
5. Fix the photocell as shown in fig. 8.
To separate the electronic board from the base, use a screwdriver to lever the three clips as indicated in fig. 9.
6. Following that indicated in the control unit manual and that indicated in fig. 10, make the electrical connections based on the requested functions.
7. Direct the lenses as in fig. 11 in order to obtain the correct alignment between the TX and RX.

4) Testing

Each individual component of the automation system requires a specific testing phase. Perform the following sequence of operations for the testing of the F210.

1. Make sure that the provisions contained in this manual, in particular

chapter 1 "WARNINGS", have been carefully observed.

2. Connect the power supply to the TX and RX of the F210, make sure there are no obstacles between the TX and RX and check the photocell status in table 1 based on the type of LED "L" signals, (see fig.11).

LED "L"	Meaning	Output status	Action
Off	OK signal = No obstacle	Active	All OK
Slow flash	Weak signal = No obstacle	Active	Improve centring
Rapid flash	Poor signal = No obstacle	Active	Check centring, cleanliness and surroundings
Always on	No signal = Obstacle present	Alarm	Remove obstacl

3. If necessary, improve the alignment by changing the direction of the TX and RX lenses as in fig. 11
Follow the signals of indicator "L": the slower the flash the better the alignment.
The best alignment is obtained when the indicator is off or when the flashes are very slow, which is in any case acceptable, whereas the alignment is at risk when the indicator flashes rapidly.
4. To check the photocells and make sure that there is no interference with other devices, pass a 5 cm diameter cylinder across the optical axis, first near TX, then near RX and finally between the two (see fig. 12) and make sure that in all these cases the device is triggered,

switching from the active status to the alarm status and vice-versa; finally, that it causes the intended action in the control unit on the automation system, for example that it causes the reversal of the movement during the closing manoeuvre.

5. The control of the correct obstacle detection is performed with the 700x300x200mm test parallelepiped with 3 black sides and 3 polished white or mirrored sides, according to the EN 12445 standard (see fig. 13).

5) Maintenance

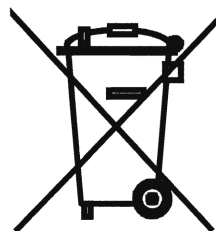
The photocells do not require any particular maintenance, however a control should be performed at least once every six months to check the integrity of the photocells (presence of dampness, rust, etc), cleaning of the external casing and testing as described in chapter 4 "Testing".

The photocells have been designed to function under normal conditions for at least 10 years, therefore maintenance should be performed more frequently once this period has expired.

6) Disposal

This product is made of various types of material, some of which can be recycled. Enquire about the recycling or disposal systems available in compliance with regulations locally in force.

⚠ Some electronic components may contain polluting substances; do not pollute the environment and do not discard together with household refuse. Use the disposal methods in compliance with local regulations.



7) Accessories

Two accessories are available on request:

1. Metal vandal-proof casing (code FA1), fitted as in fig. 14);
2. Fixing brackets (code FA2) for "MOCF" posts, fitted as in fig. 15;

8) Technical characteristics

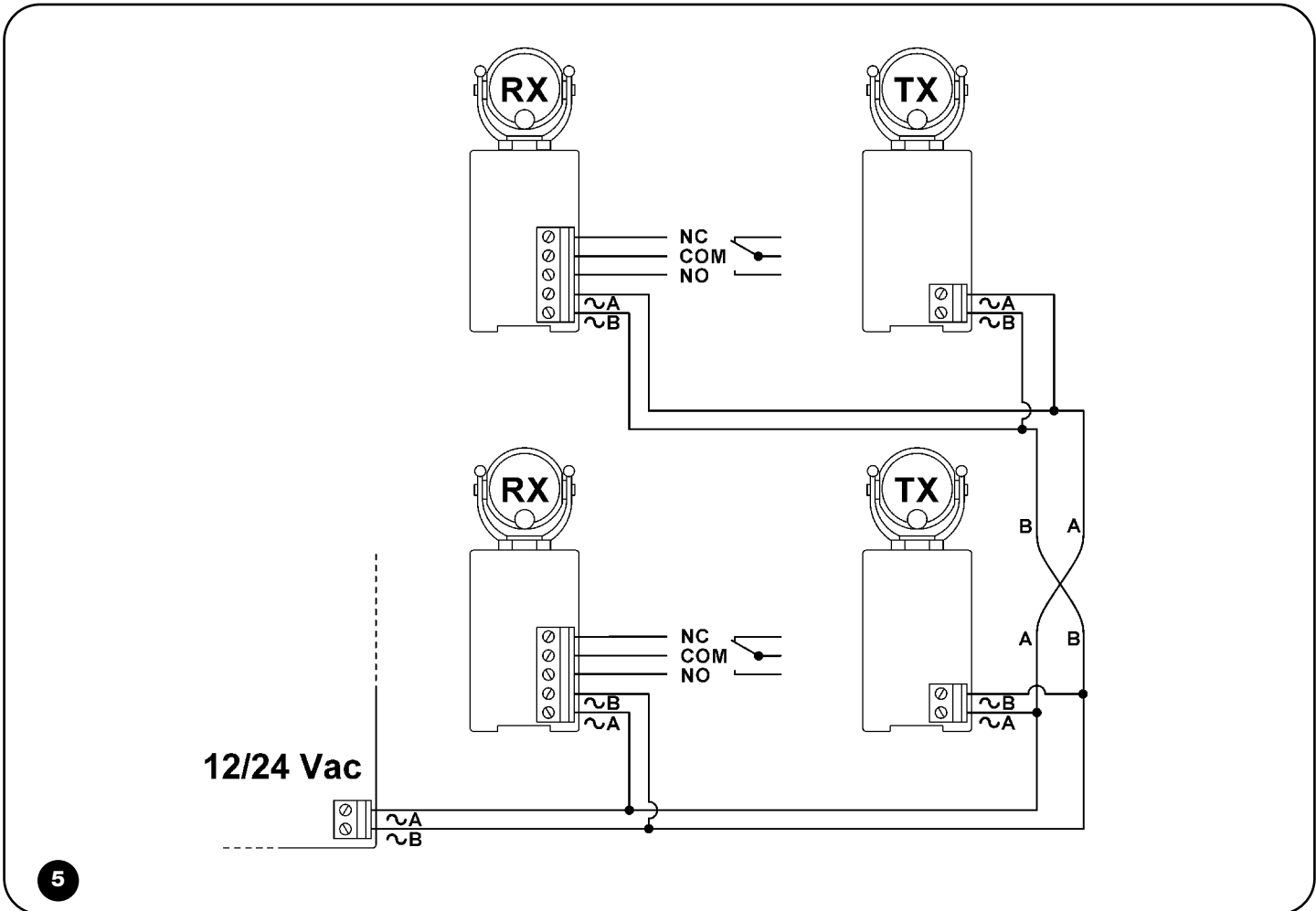
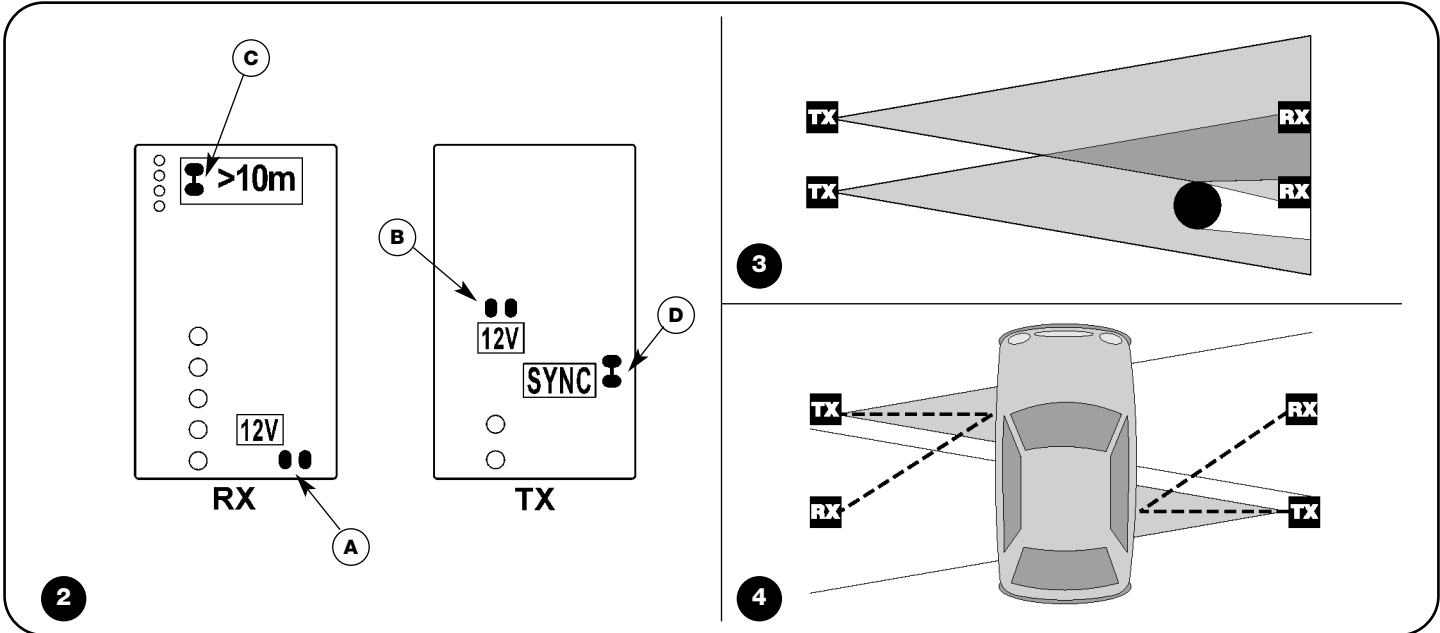
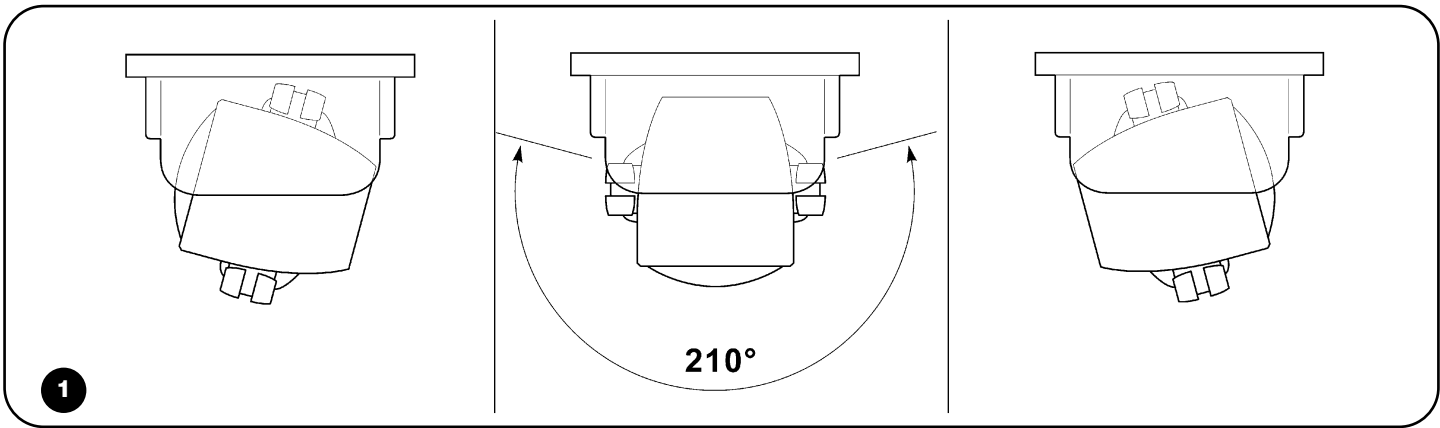
In order to improve its products, NICE S.p.a. reserves the right to modify them at any time without prior notice. In any case, the manufacturer guarantees their functionality and fitness for the intended purposes

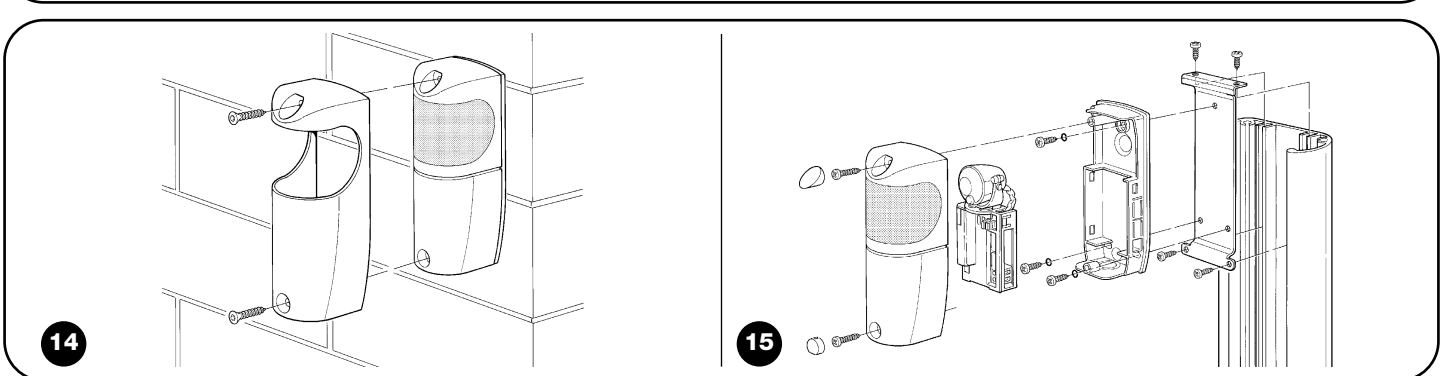
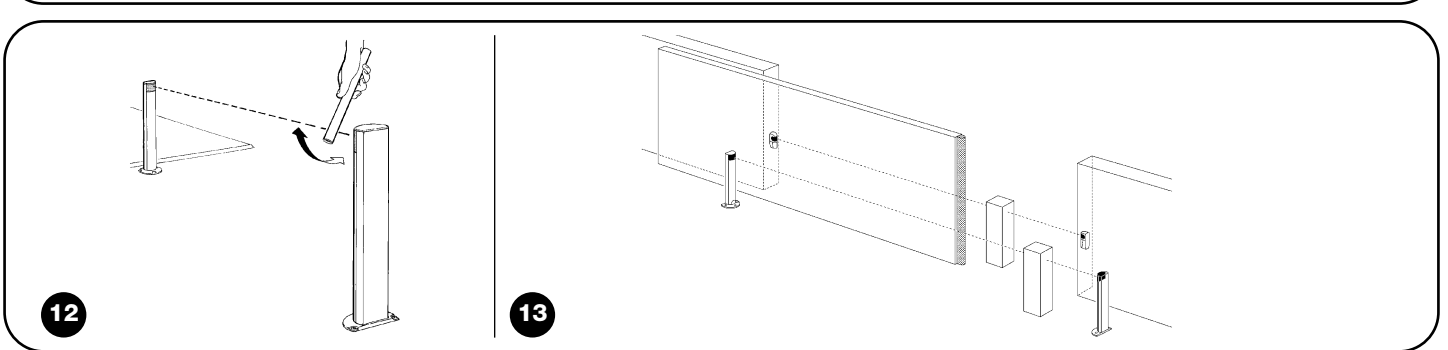
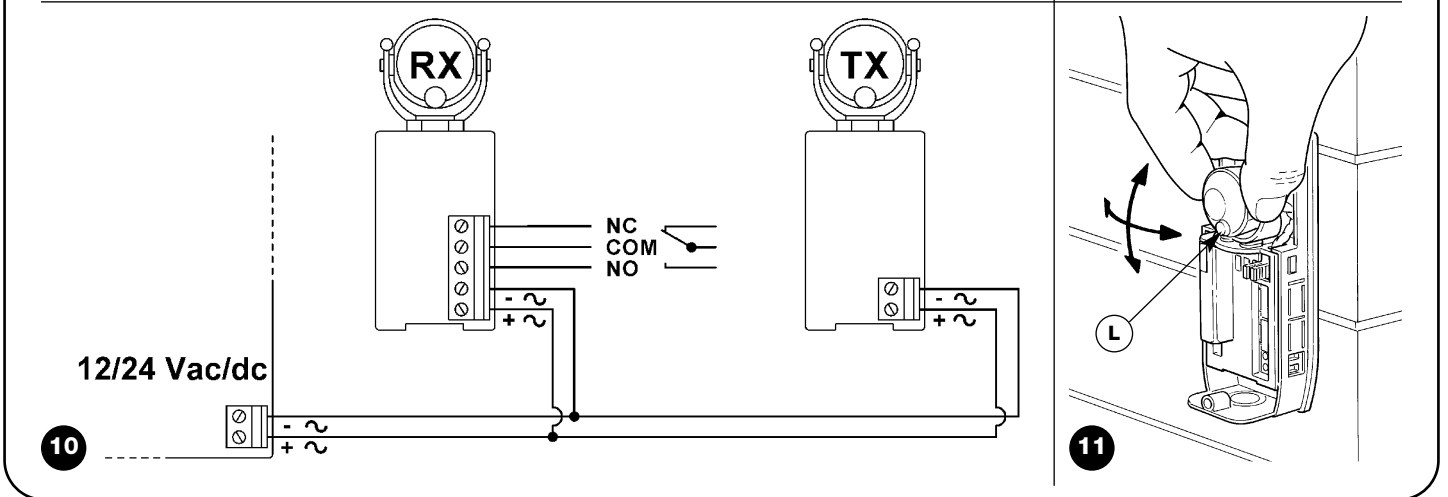
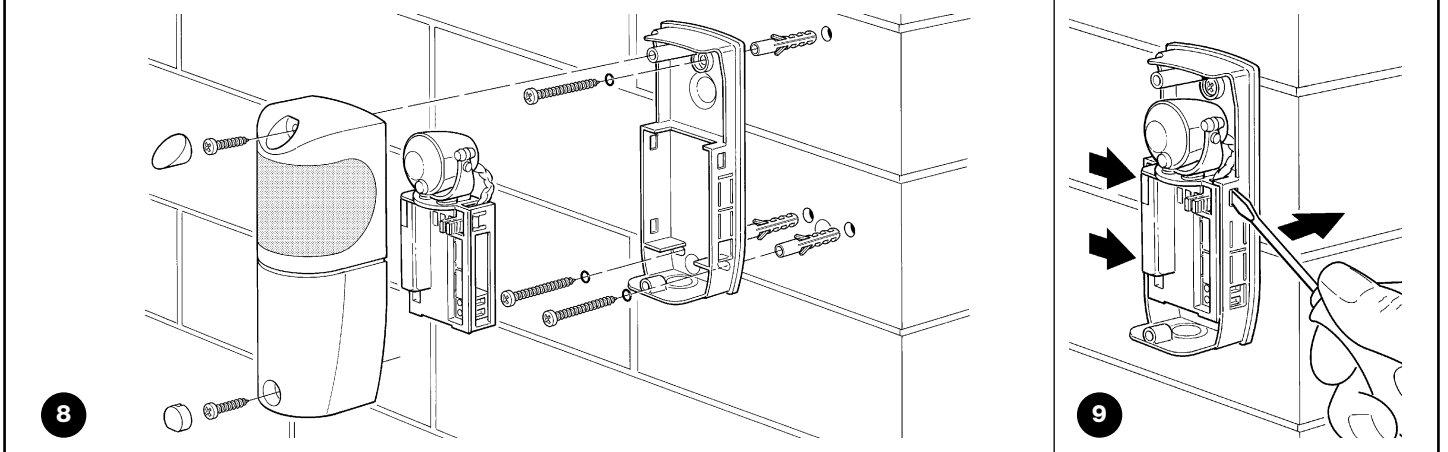
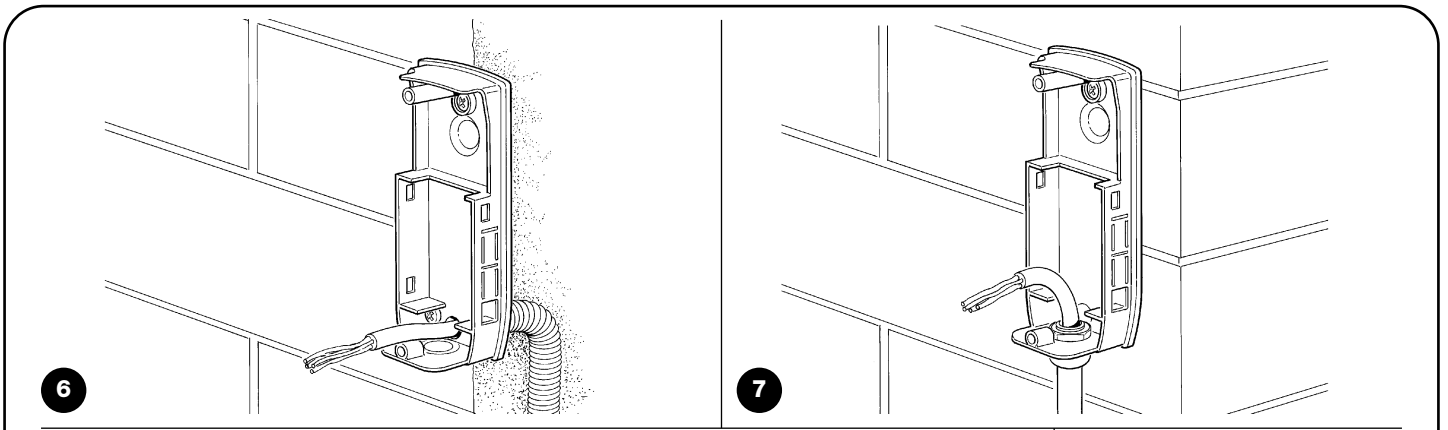
Note: all the technical characteristics refer to a temperature of 20°C.

F210 directional photocell

Product type	Presence detector for automated gates and doors (type D according to EN standard 12453) consisting of a "TX" transmitter and an "RX" receiver
Adopted technology	TX-RX direct optical interpolation with modulated infrared beam
Power supply/output	Without jumper: 24 Vac/Vdc (limits 18÷35 Vdc, 15÷28Vac) With "12V" jumper: 12 Vac/Vdc (limits 10÷18 Vdc , 9÷15 Vac)
Absorbed current	25mA RX, 30mA TX = 55mA per pair
Detection capacity	Opaque objects located on the optical axis between TX and RX, larger than 50 mm and moving slower than 1.6m/s
TX transmission angle	+/- 4° (value taken at 50% of the capacity)
RX reception angle	+/- 3° (value taken at 50% of the capacity)
F210 photocell directional capacity	Approx. 210° on the horizontal axis and 30° on the vertical axis
Useful range	10 m (30 m with ">10m" jumper cut) for maximum TX-RX misalignment ± 2° (the range may be further reduced in the presence of particularly intense atmospheric conditions: fog, rain, snow, dust, etc.).
Maximum range	20 m (60 m with ">10m" jumper cut) for maximum TX-RX misalignment ± 2° (range guaranteed under optimum conditions)
Use in acid, saline or potentially explosive atmosphere	No
Mounting	Vertically wall mounted or on "MOCF" posts with "FA2" bracket.
Protection class casing	IP44
Operating temperature	-20 ÷55°C
Dimensions / weight	46 x 128 h 45mm / 230 g

Nice S.p.a. reserves the right to modify its products at any time.





Dichiarazione CE di conformità / EC declaration of conformity

(Secondo la Direttiva 89/336/CEE) (According to Directive 89/336/EEC)

Numero / Number: 216/F210 Data / Date: 02-02-2005 Revisione / Revision: 0

Il sottoscritto Lauro Buoro, Amministratore Delegato, dichiara che il prodotto

The undersigned Lauro Buoro, General Manager of the following producer, declares that the product

Nome produttore / Producer name:	NICE S.p.a.
Indirizzo / Address:	Via Pezza Alta 13, 31046 Z.I. Rustignè - ODERZO - ITALY
Tipo / Type:	Fotocellula orientabile / <i>F210 directional photocell</i>
Modello / Model:	F210
Accessori / Accessories:	Box metallico antivandalico FA1 / <i>Vandal-proof metal container FA1</i>

Risulta conforme a quanto previsto dalle seguenti direttive comunitarie, così come modificate dalla Direttiva 93/68/CEE del consiglio del 22 Luglio 1993: / *Satisfies the essential requirements of Electromagnetic Compatibility Directive 89/336/EEC.*

- 89/336/CEE; DIRETTIVA 89/336/CEE DEL CONSIGLIO del 3 maggio 1989, per il riavvicinamento delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica. / *89/336/EEC DIRECTIVE 89/336/EEC OF THE COUNCIL of May 3, 1989, for the harmonisation of the legislations of member States regarding electromagnetic compatibility.*

Secondo le seguenti norme: EN 61000-6-2; EN 61000-6-3 / *In compliance with the following harmonised standards: EN 61000-6-2; EN 61000-6-3*

Oderzo, 2 Febbraio 2005

Amministratore delegato
(General Manager)
Lauro Buoro






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CE



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F210B

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Nice

1) Warnings

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According to the most recent European legislation, the automation of a door or gate is governed by the provisions listed in Directive 98/37/CE (Machine Directive) and, more specifically, by provisions: EN 13241-1 (harmonized standard); EN 12445; EN 12453 and EN 12635, which enable to declare the conformity of the product to the machine directive.

Further information, risk analysis guidelines and how to draw up the Technical Documentation are available at: www.niceforyou.com. This manual has been especially written for use by qualified fitters, none of the information provided in this manual can be considered as being of interest to end users!

- The use of F210B which is not explicitly provided for in these instructions is not permitted. Improper use may cause damage and personal injury.
- Do not modify any components unless such action is specified in these instructions. Operations of this type are likely to lead to malfunctions. NICE

- disclaims any liability for damage resulting from modified products
- F210B must only function through TX-RX direct interpolation. Use through reflection is prohibited.
- The photocell must be secured to a solid and vibration free surface.
- Use suitable conductors for the electrical connections as specified in the control unit manuals.
- The F210B photocells can only be connected to control units with "Blue-Bus" technology.

Particular warnings concerning the suitable use of this product in relation to the 89/336/EEC "Electromagnetic Compatibility" Directive and subsequent modifications 92/31/EEC and 93/68/EEC:

This product has been subjected to tests regarding the electromagnetic compatibility in the most critical of use conditions, in the configurations foreseen in this instructions manual and in combination with articles present in the Nice S.p.a. product catalogue. The electromagnetic compatibility may not be guaranteed if used in configurations or with other products that have not been foreseen; the use of the product is prohibited in these situations until the correspondence to the requirements foreseen by the directive have been verified by those performing the installation.

2) Product description and applications

The F210B directional photocells are presence detectors (type D according to the EN12453 standard) that can be used in gate automation systems, which allow the detection of obstacles present on the optical axis between the transmitter (TX) and the receiver (RX).

The photocells have a "BlueBus" type communication that allows all devices to be easily connected to the control unit with just two wires. The photocells are simply connected in parallel and the addressing jumpers are selected depending on the required function (see table 1).

Because the F210B can be horizontally directed through 210° and vertically directed through 30°, it can also be applied on surfaces where the correct alignment between the TX and RX would not normally be possible (see figure 1).

The F210B photocells can be used along with the new "FT210B" series of devices (see figures 2 and 3). The FT210B device uses the "BlueBUS" technology and resolves problems related to the electrical connection of sensitive edges on the moving leaf (for further details consult the FT210B use manual).

3) Installation

⚠ The system must be disconnected from the mains power supply during installation. If buffer batteries are present, these must also be disconnected.

- Check carefully that the use parameters conform to the data indicated in the "technical characteristics" chapter. If in doubt, do not use the product and ask clarification from the Nice technical assistance department.

Proceed with the installation checking the following points:

1. Depending on the type of automation, position the photocells based on the detection functions. Check the foreseen positions in figures 2, 3, 4 and 5 and set the jumpers following table 1.
To rectify interference between the various "BlueBus" devices, position the photocell transmitters and receivers as shown in figures 2 and 3.
If the photocell needs to be used as an opening device (see figures 2, 3, 4 and 5, and the FA1 and FA2 addresses in table 1), cut the jumper between points "A" both on the TX and on the RX as shown in fig. 6

2. If necessary, the F210B can be installed on a special MOCF post, with the appropriate FA2 accessory (see figure 7), or wall mounted. If the F210B is wall mounted, the cable can be introduced from the base (see figure 8) or from below. In this case a "PG9" cable clip is required (see figure 9).
3. To aid the fixing operation, the electronic board can be detached from the base using a screw driver to lever the three clips as shown in figure 10.
4. Fix the receiver as shown in figure 11.
5. If the distance between TX and RX is greater than 10 m, cut the jumper between points "> 10 m" of the RX as shown in figure 6.
7. Connect the electric cable to both the TX and RX terminals. From an electrical point of view, the TX and RX are connected together in parallel (as shown in figure 12) and to the "BlueBus" interface or control unit terminal. The polarity does not have to be respected
8. Direct the lenses as shown in figure 13 so that the TX and RX are perfectly aligned.

4) Addressing and recognition of the devices

The particular "BlueBus" communication system allows the control unit to recognise the photocells, by means of addressing with the appropriate jumpers, and to assign the correct detection operation. The addressing operation is performed both on the TX as well as on the RX (positioning the jumpers in the same manner) making sure that there are no other photocell pairs with the same address.

1. Address the photocells based on the required operation, positioning the jumpers as shown in table 1.
Place the jumpers that are not used in the spare location for future use, as shown in figure 14.

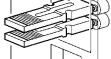
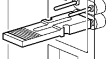
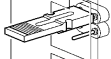
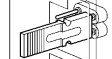
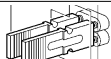

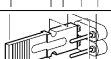
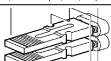
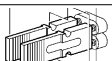
Note: For the detailed description of the various operations performed and each type of addressing, consult the "BlueBus" technology interface and control units use manual.

Note: to rectify interference between the various "BlueBus" devices, position the photocell transmitters and receivers as shown in figures 2 and 3.

2. Perform the programming of the devices on the control unit as illustrated in paragraph "Recognition of connected devices" in the various "Blue-Bus" interface or control unit use manuals.

Note: If the photocell is used in replacement of an already existing photocell, the jumpers are positioned in exactly the same way as that of the replaced photocell and the recognition phase is not necessary.

3. If necessary, improve the alignment of the TX and RX lenses as shown in figure 13. Perform the L1 Led signalling (Ir Level), the slower the flash the better the alignment. The best alignment is when the L1 Led flashes slowly with a maximum of 3 flashes per second.

Photocell	Jumpers	Photocell	Jumpers
FOTO		FOTO 2	
FOTO II		FOTO 2 II	
FOTO 1		FOTO 3	
FOTO 1 II			
FA1 (cut jumper A on TX and RX as shown in figure 6)		FA2 (cut jumper A on TX and RX as shown in figure 6)	

5) Testing and operational control

After the recognition phase make sure that the Led on the photocell flashes (both on the TX and on the RX). Check the status of the photocell on table 2 based on the type of flash of the Led "L".

LED "L"	Status	Action
Off	The photocell is either disconnected or malfunctioning	Check that a voltage of approximately 8-12 Vdc is present on the photocell terminals. If the voltage is correct the photocell is probably malfunctioning
3 fast flashes and 1 second pause	Device not recognised by the control unit	Repeat the recognition phase from the control unit, making sure that all photocell pairs have different addresses
Very slow flashing	The TX transmits properly The RX receives a perfect signal	Normal operation
Slow flashing	The RX receives a fair signal	Normal operation
Fast flashing	The RX receives a weak signal	Normal operation but the TX-RX alignment should be checked as well as the cleanness of the glasses
Very fast flashing	The RX receives a very poor signal	It is at the limit of normal operation, the TX-RX alignment should be checked as well as the cleanness of the glasses
Always on	The RX does not receive any signal	Make sure that the LED on the TX flashes very slowly. Check to see if there is an obstacle between TX and RX. Check the TX-RX alignment

Warning: testing of the entire automation must be performed again in accordance with that foreseen in the related installation manuals after photocells have been added or replaced.

To check the photocells and to make sure that there is no interference with other devices, pass a 5 cm diameter, 30 cm long cylinder on the optical axis, first near TX, then near RX and finally at the mid-point between them (see Figure 15) and make sure that in all these cases the device is triggered, switching from the active to the alarm status and vice-versa. Finally, make sure that

the intended action occurs in the control unit, for example that it causes the reversal of the movement during the closing manoeuvre.

The control of the F210B optical presence sensor (type D) according to the EN 12445 standard, is performed with the 700x300x200mm test parallelepiped with 3 black sides and 3 polished white or mirrored sides as indicated in figure 16 and according to chapter 7 of the EN 12445:2000 standard (or enclosure A of prEN12445:2005).

6) Maintenance

The photocell does not require any particular maintenance, however a control should be performed at least once every six months to check its integrity (presence of dampness, rust, etc), as well as cleaning of the external casing and lenses and testing as described in the previous paragraph. The F210B

photocell has been designed to function under normal conditions for at least 10 years, therefore maintenance should be performed more frequently once this period has expired.

6.1) Disposal

As for the installation, the disposal of the product, at the end of its effective life, must be performed by qualified personnel. This product is made of various types of material, some of which can be recycled while others must be disposed of. Enquire about the recycling or disposal systems available for this product category in compliance with regulations locally in force

Warning: some parts of the product may contain polluting or hazardous substances that, if incorrectly disposed of, could have a damaging effect on the environment or on the health of individuals.

As indicated by the symbol in figure 17, this product must not be disposed of along with household waste. Perform "separated collection" for disposal in compliance with regulations locally in force, or return the product to the manufacturer when purchasing a replacement.



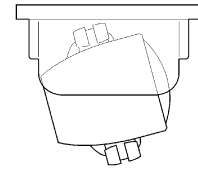
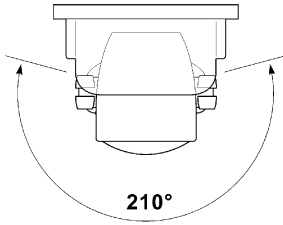
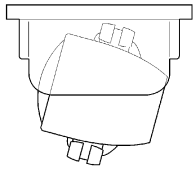
Heavy fines may be imposed by local laws for the illegal disposal of this product.

7) Technical characteristics

In order to improve its products, NICE S.p.a. reserves the right to modify the technical characteristics at any time without prior notice. In any case, the manufacturer guarantees their functionality and fitness for the intended purposes.

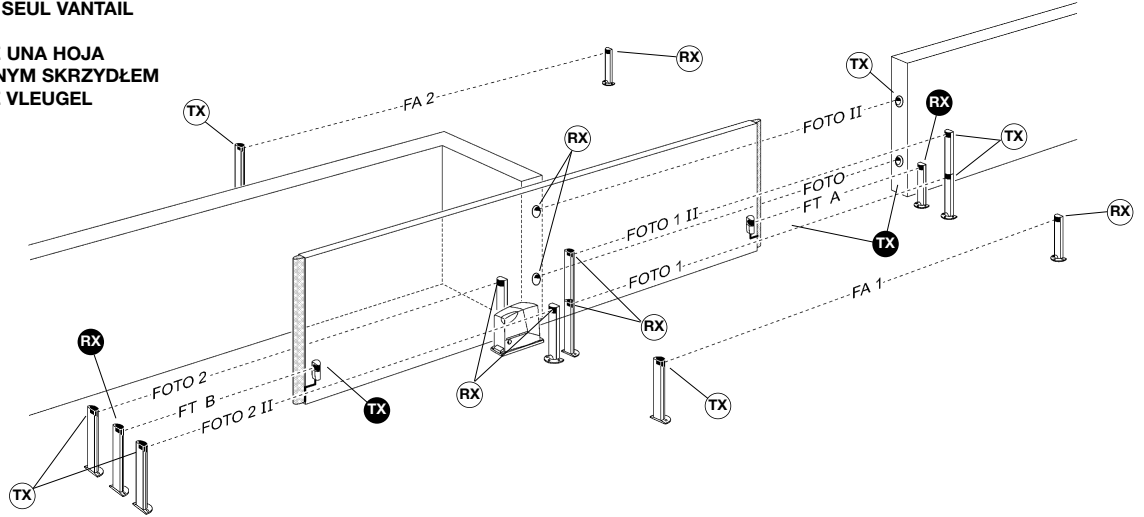
Note: all technical characteristics refer to a temperature of 20°C.

F210B directional photocell	
Product type	Presence detector for automatic gate and door automation systems (type D according to EN standard 12453), consisting in a "TX" transmitter and "RX" receiver.
Adopted technology	TX-RX direct optical interpolation with modulated infrared beam
Power supply/output	The device can be connected to "BlueBus" networks only from which it obtains its power supply and sends output signals.
Absorbed power	1 BlueBus unit
Detection capacity	Opaque objects located on the optical axis between TX and RX, larger than 50 mm and moving slower than 1.6m/s
TX transmission angle	+/- 4° (value taken at 50% of the capacity)
RX reception angle	+/- 3° (value taken at 50% of the capacity)
Adjustability of the F210B photocell	Approximately 210° on the horizontal axis and 30° on the vertical axis
Useful range	10m or 30m with the ">10m" jumper cut for maximum TX-RX misalignment ± 2° (the range may be further reduced in the presence of particularly intense atmospheric conditions: fog, rain, snow, dust, etc.)
Maximum range	20m or 60m with the ">10m" jumper cut for maximum TX-RX misalignment ± 2° (capacity guaranteed under optimal conditions)
Maximum length of cable	Up to 50m
Addressing capability	Up to 7 detectors with safety function and 2 with open command function. The automatic synchronism prevents interference between the various detectors .
Use in acid, saline or potentially explosive atmosphere	No
Assembly	Vertically wall mounted or on "MOCF" posts with "FA2" bracket.
Casing protection class	IP44
Operating temperature	20÷55°C
Dimensions / weight	46 x 128 h 45mm / 230 g



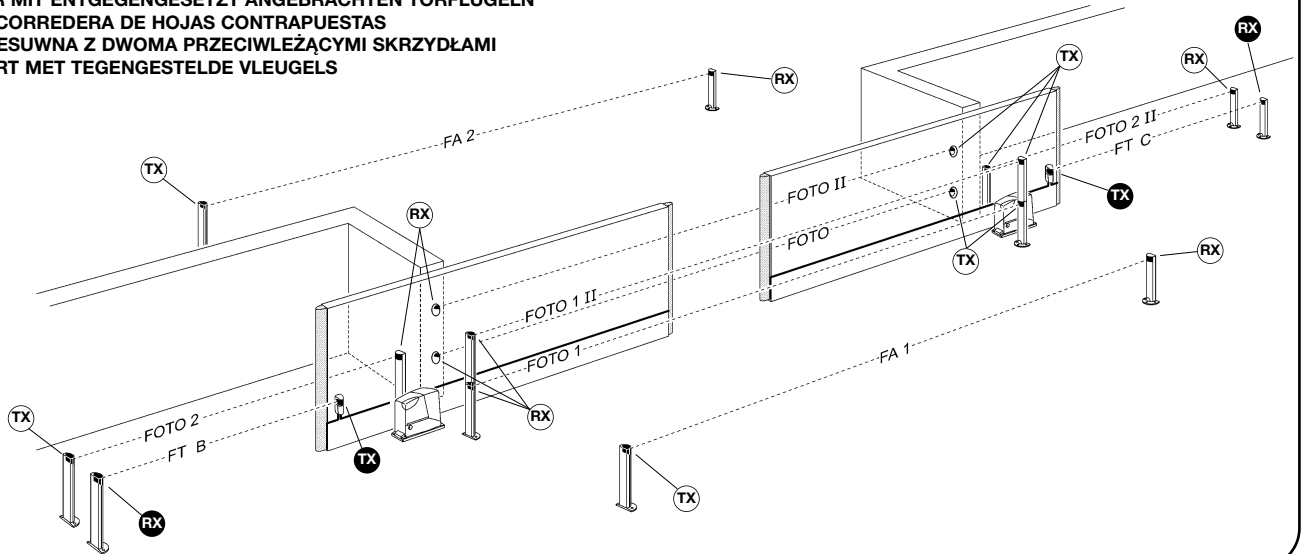
1

SINGLE LEAF SLIDING GATE
CANCELLO SCORREVOLE AD ANTA SINGOLA
PORTAIL COULISSANT À UN SEUL VANTAIL
EINTEILIGES SCHIEBETOR
PUERTA DE CORREDERA DE UNA HOJA
BRAMA PRZESUWNA Z JEDNYM SKRZYDŁEM
SCHUIFPOORT MET ENKELE VLEUGEL



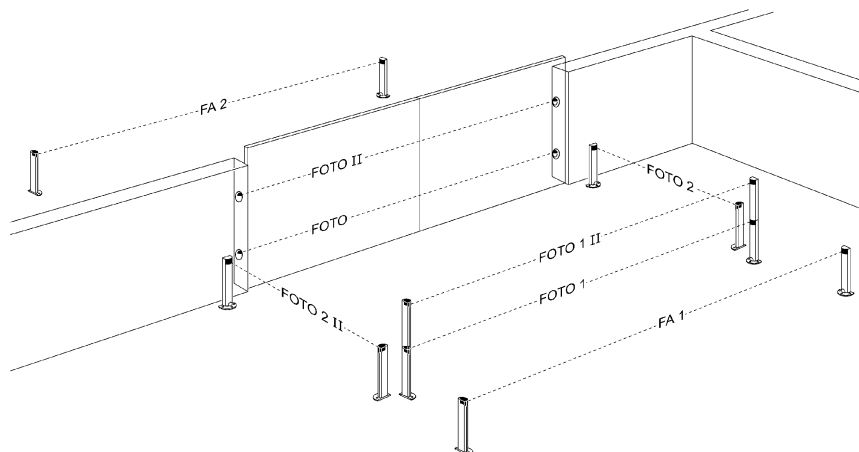
2

SYNCHRONISED LEAFS SLIDING GATE
CANCELLO SCORREVOLE AD ANTE CONTRAPPOSTE
PORTAIL COULISSANT À VANTAUX OPPOSÉS
SCHIEBETOR MIT ENTGEGENGESETZT ANGEBRACHTEN TORFLÜGELN
PUERTA DE CORREDERA DE HOJAS CONTRAPUESTAS
BRAMA PRZESUWNA Z DWOMA PRZECIWLĘŻĄCYMI SKRZYDŁAMI
SCHUIFPOORT MET TEGENGESTELDE VLEUGELS



3

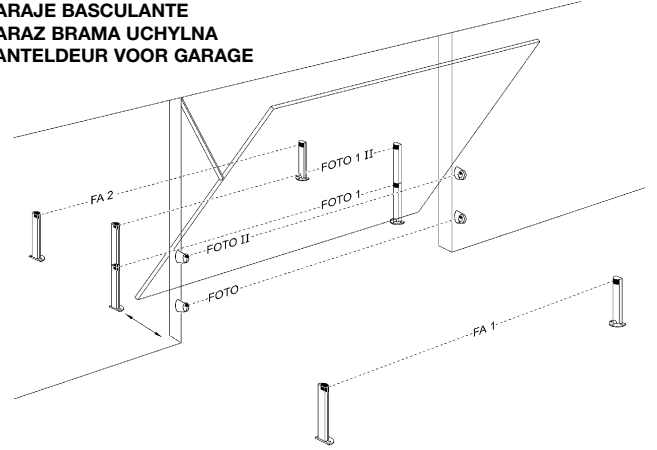
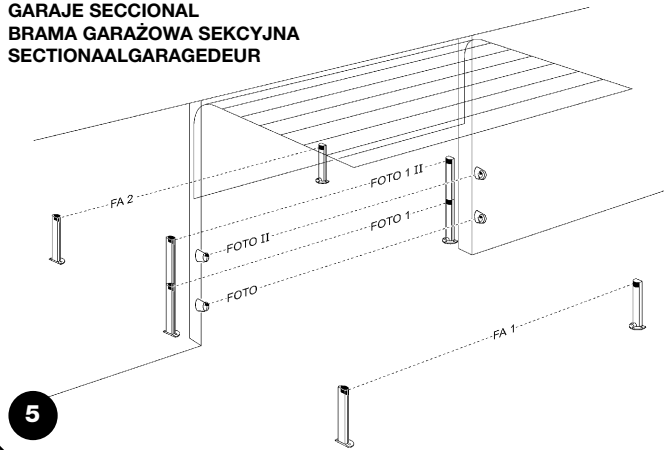
SWING GATE
CANCELLO A BATTENTE
PORTAIL BATTANT
DREHTOR
PUERTA DE BATIENTE
BRAMA SKRZYDŁOWA
KANTELDEUR VOOR GARAGE



4

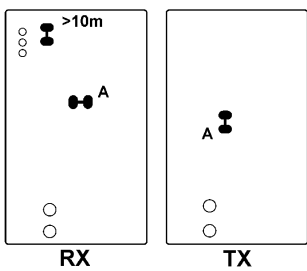
SECTIONAL DOOR
 GARAGE SEZIONALE
 PORTE SECTIONNELLE
 SEKTIONALTOR
 GARAJE SECCIONAL
 BRAMA GARAŻOWA SEKCYJNA
 SECTIONAALGARAGEDEUR

UP & OVER GARAGE DOORS
 GARAGE BASCULANTE
 PORTE DE GARAGE BASCULANTE
 GARAGENKIPPTOR
 GARAJE BASCULANTE
 GARAZ BRAMA UCHYLNA
 KANTELDEUR VOOR GARAGE

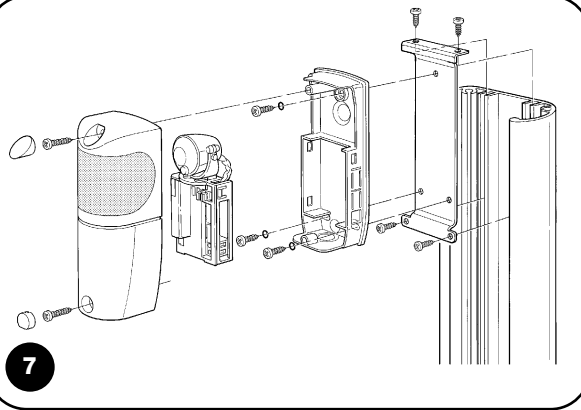


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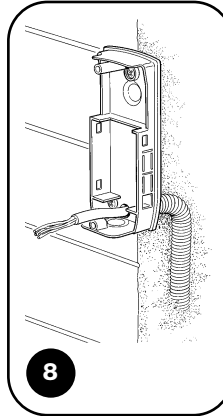
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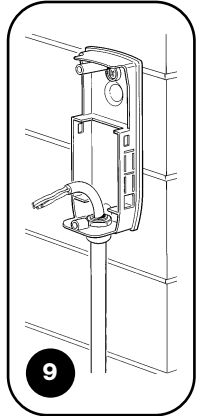
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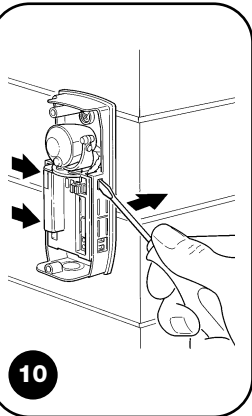
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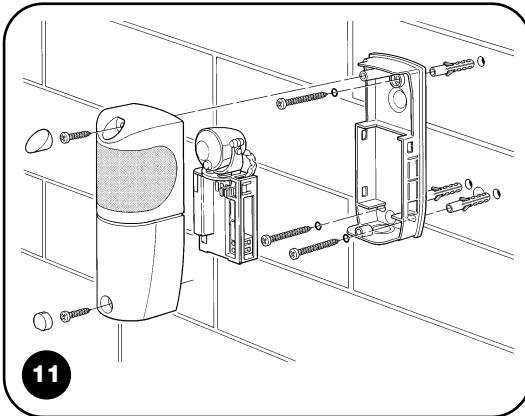
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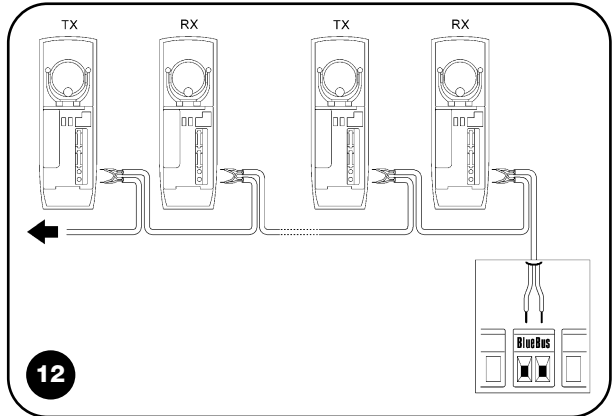
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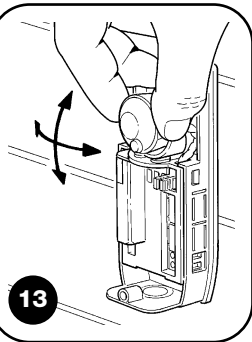
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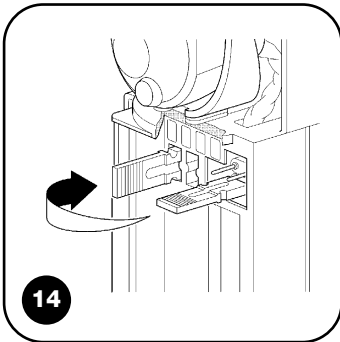
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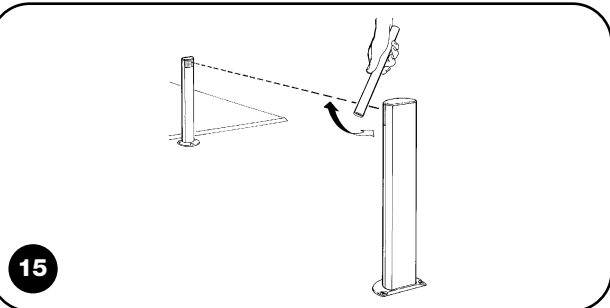
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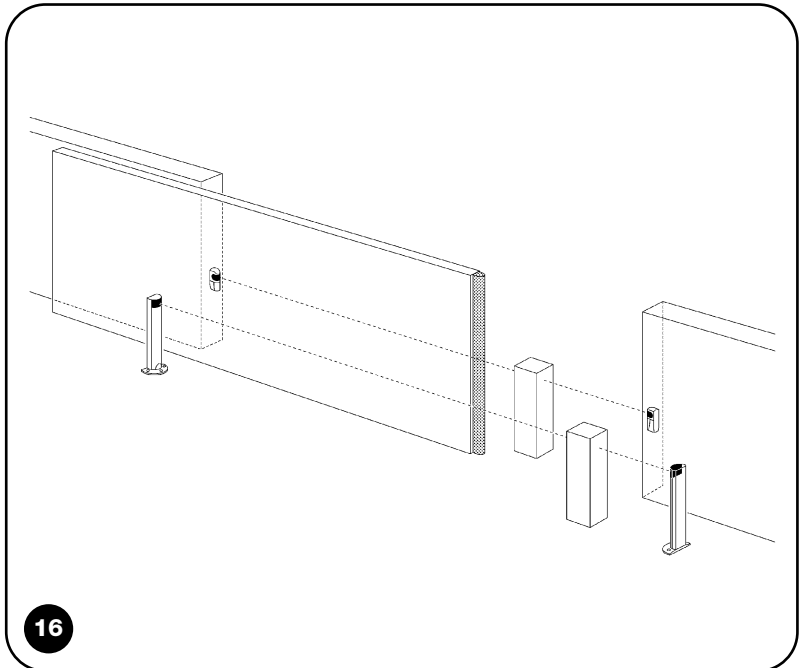
14



15



16



Dichiarazione CE di conformità / EC declaration of conformity

(Secondo la Direttiva 89/336/CEE) (According to Directive 89/336/EEC)

Nota: il contenuto di questa dichiarazione di conformità corrisponde all'ultima revisione aggiornata alla data di edizione del presente documento; eventualmente riadattato per motivi editoriali. La versione integrale ed aggiornata della presente dichiarazione è depositata presso la sede di Nice S.p.a.

Note: the content of this declaration of conformity correspond to the last revision updated on the edition date of the present document; readapted for editorial reasons. The integral and updated version of the present document is held at the Head Offices of Nice S.p.a.

Numero / Number: 215/F210B

Data / Date: 11/10/2005

Revisione / Revision: 0

Il sottoscritto Lauro Buoro, Amministratore Delegato, dichiara che il prodotto

The undersigned Lauro Buoro, General Manager of the following producer, declares that the product

Nome produttore / Producer name:

NICE S.p.a.

Indirizzo / Address:

Via Pezza Alta 13, 31046 Z.I. Rustignè - ODERZO - ITALY

Modello / Model:

F210B

Accessori / Accessories:

Box metallico antivandalico FA1 / *Vandal-proof metal container FA1*

Risulta conforme a quanto previsto dalle seguenti direttive comunitarie, così come modificate dalla Direttiva 93/68/CEE del consiglio del 22 Luglio 1993:

Complies with the following community directives, as modified from Directive 93/68/EEC of the Council of the 22 July 1993.

- 89/336/CEE; DIRETTIVA 89/336/CEE DEL CONSIGLIO del 3 maggio 1989, per il riavvicinamento delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica. / 89/336/CEE; Council Directive of 3 May 1989 on the approximation of the laws of the Member States relating to Electromagnetic Compatibility).

Secondo le seguenti norme: EN 61000-6-2; EN 61000-6-3 / *Complies with the following standards: EN 61000-6-2; EN 61000-6-3*

Oderzo, 11 Ottobre 2005


Amministratore delegato
(General Manager)
Lauro Buoro



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CERTIFIED BY DNV
=ISO 9001/2000=

Nice Gate is the doors and gate automation division of Nice

Nice Screen is the rolling shutters and awnings automation division of Nice

www.niceforyou.com