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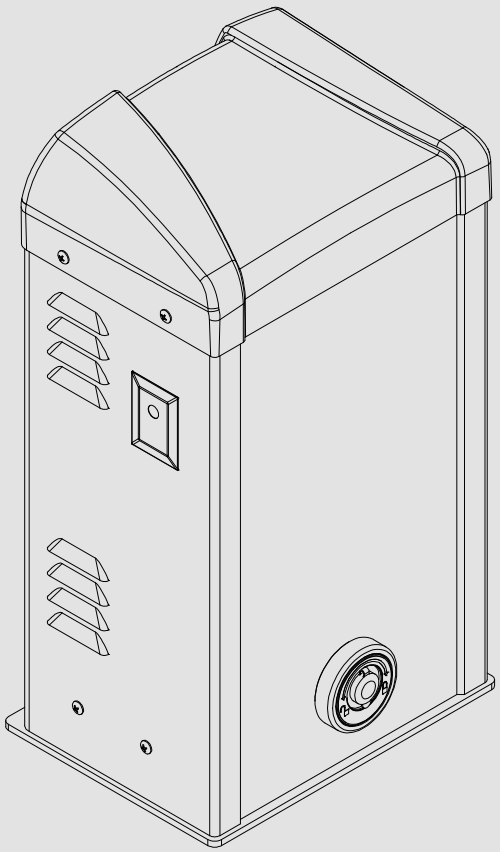
BISON 25 OTI



BENINCÀ®
TECHNOLOGY TO OPEN

CE

UNIONE NAZIONALE COSTRUTTORI
AUTOMATISMI PER CANCELLI, PORTE
SERRANDE ED AFFINI

UNAC

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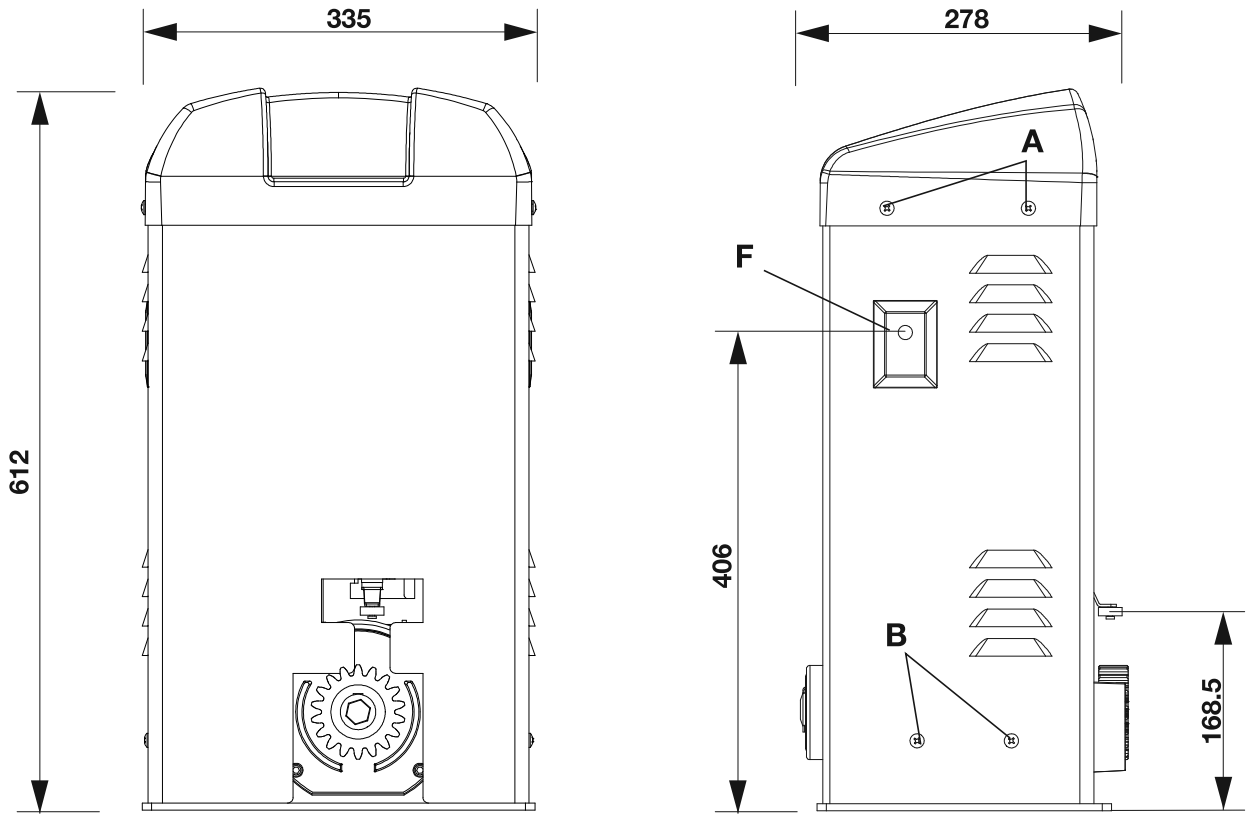

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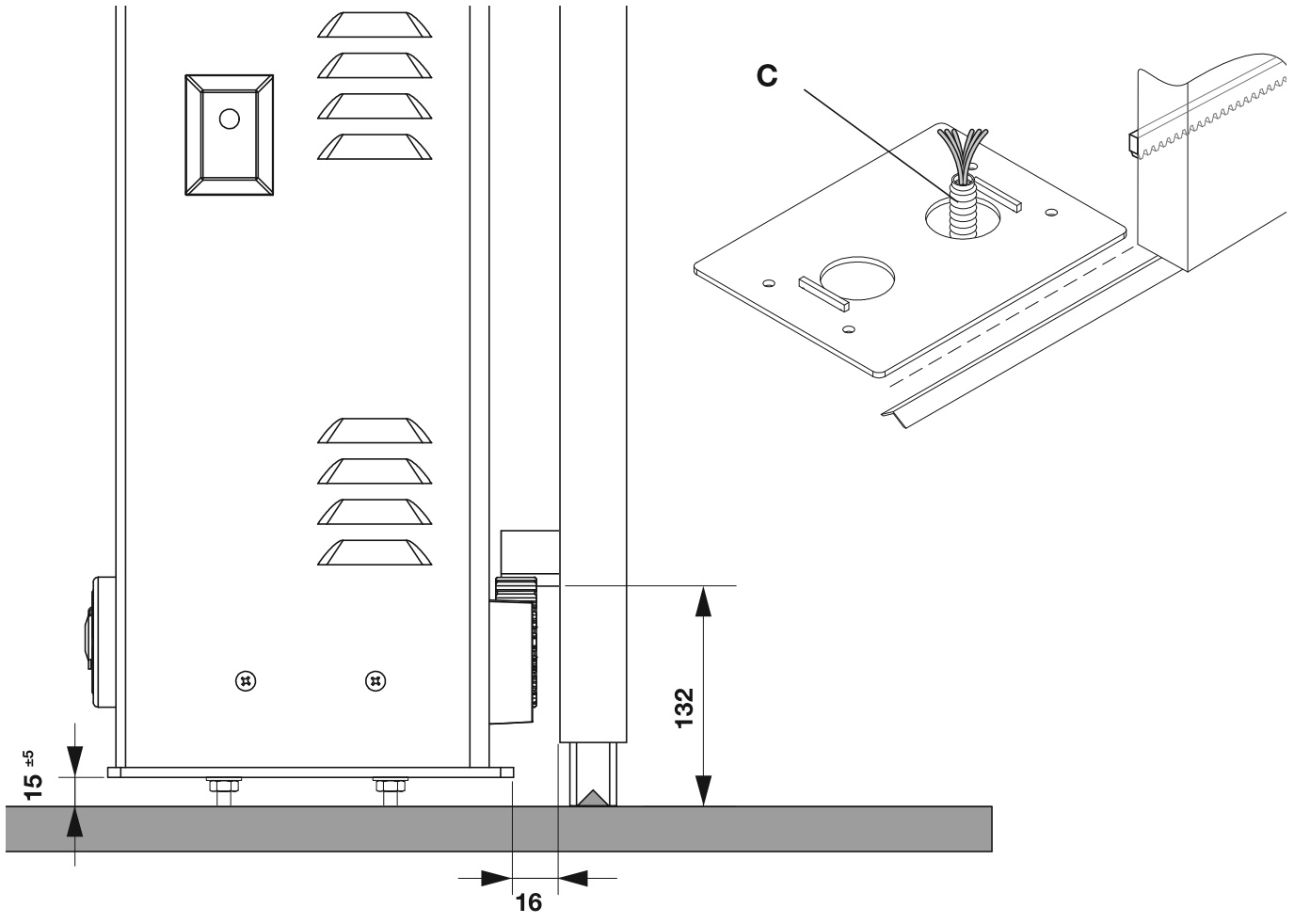

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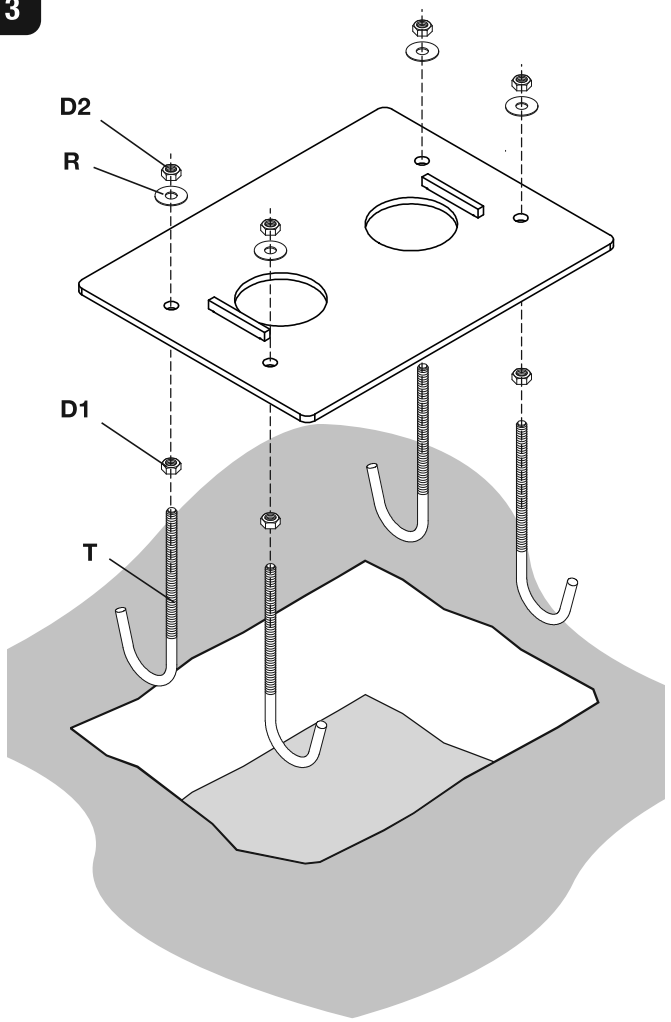

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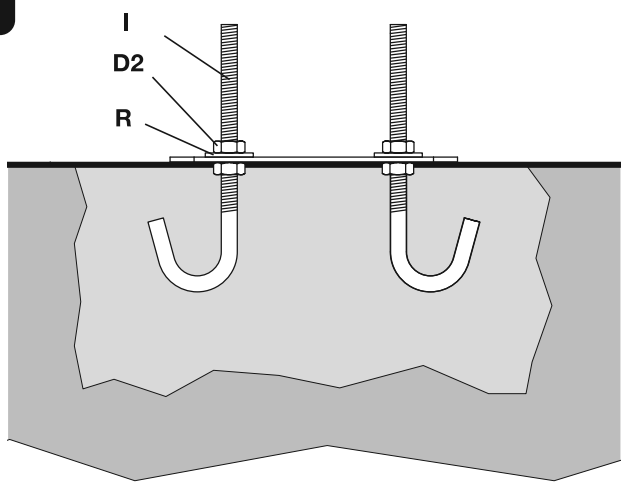

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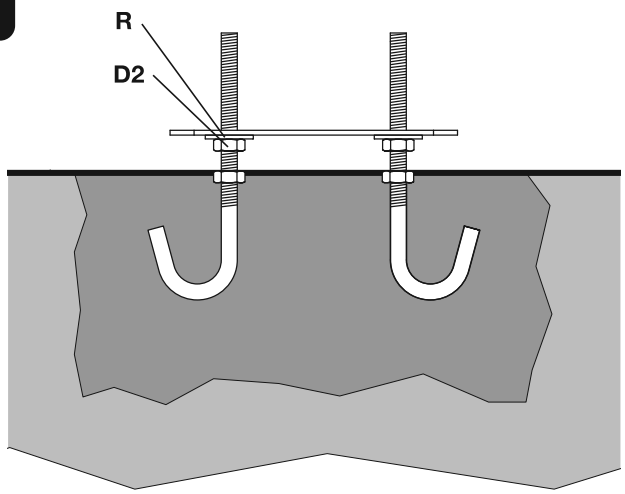

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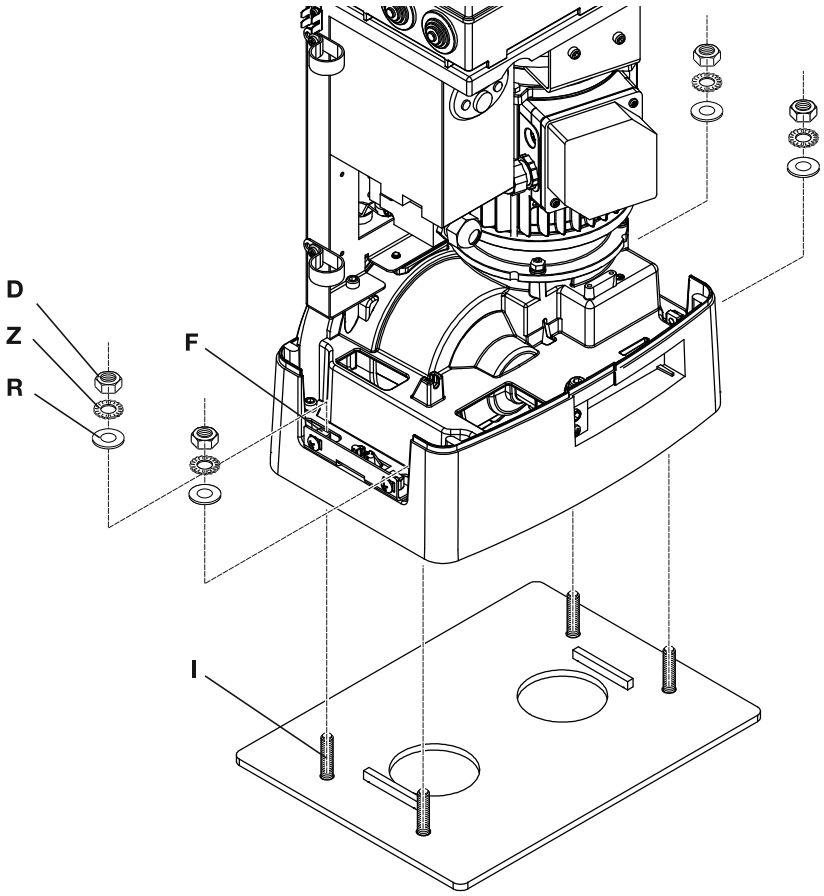

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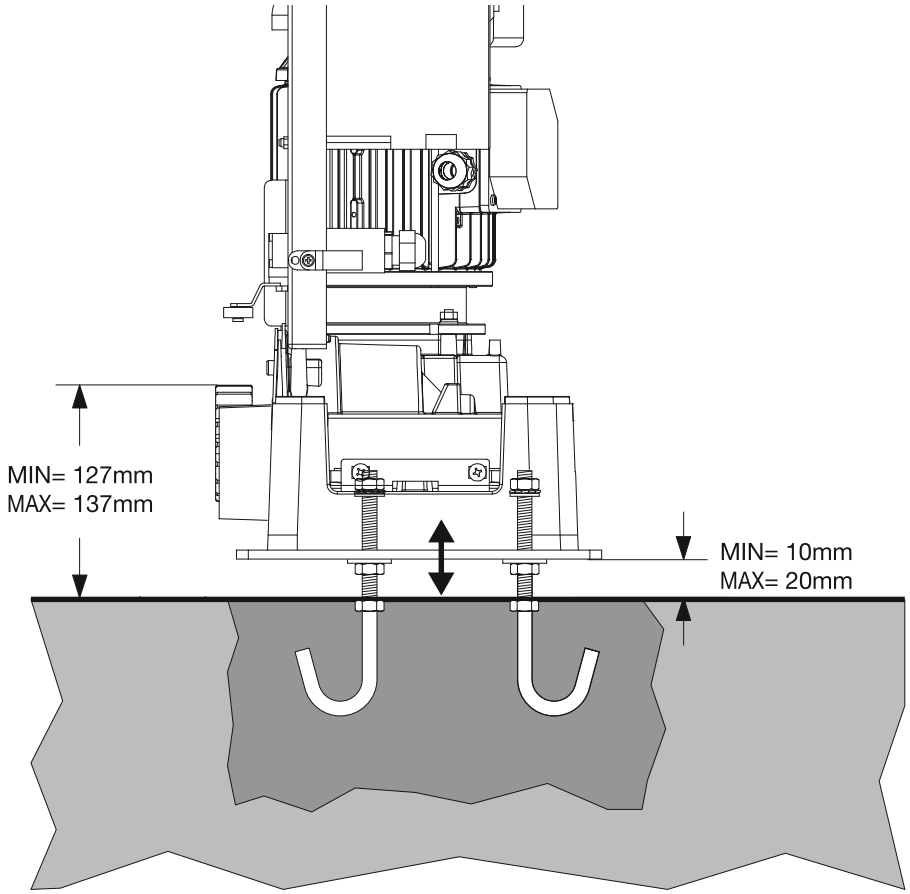

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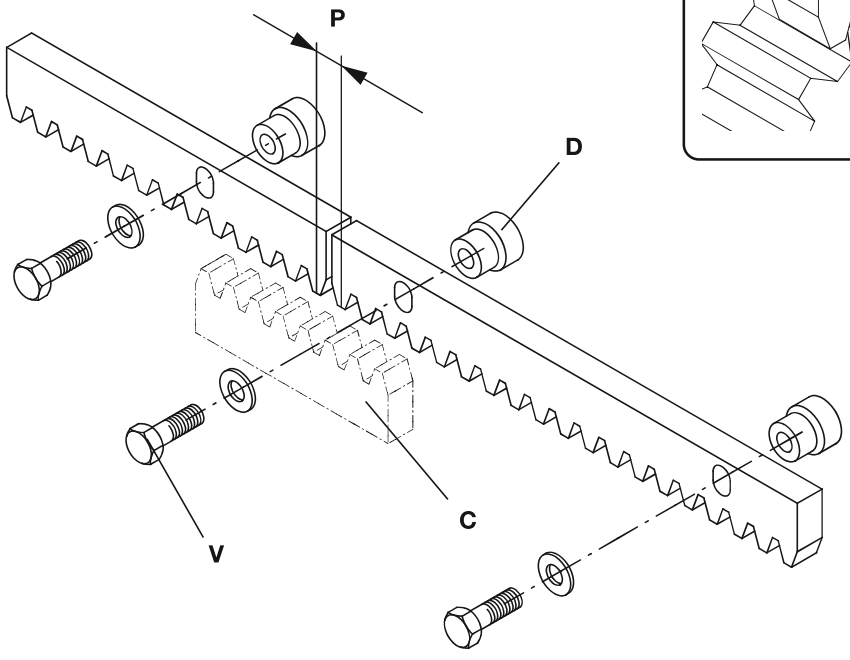

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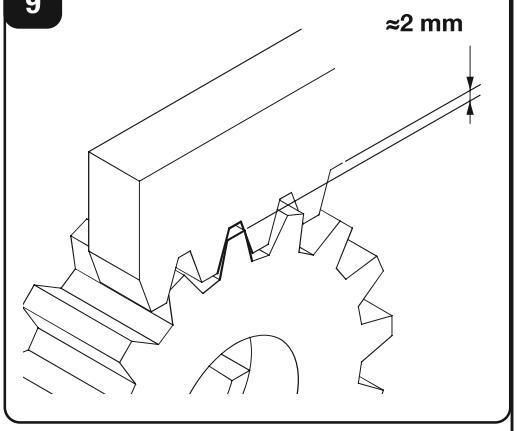

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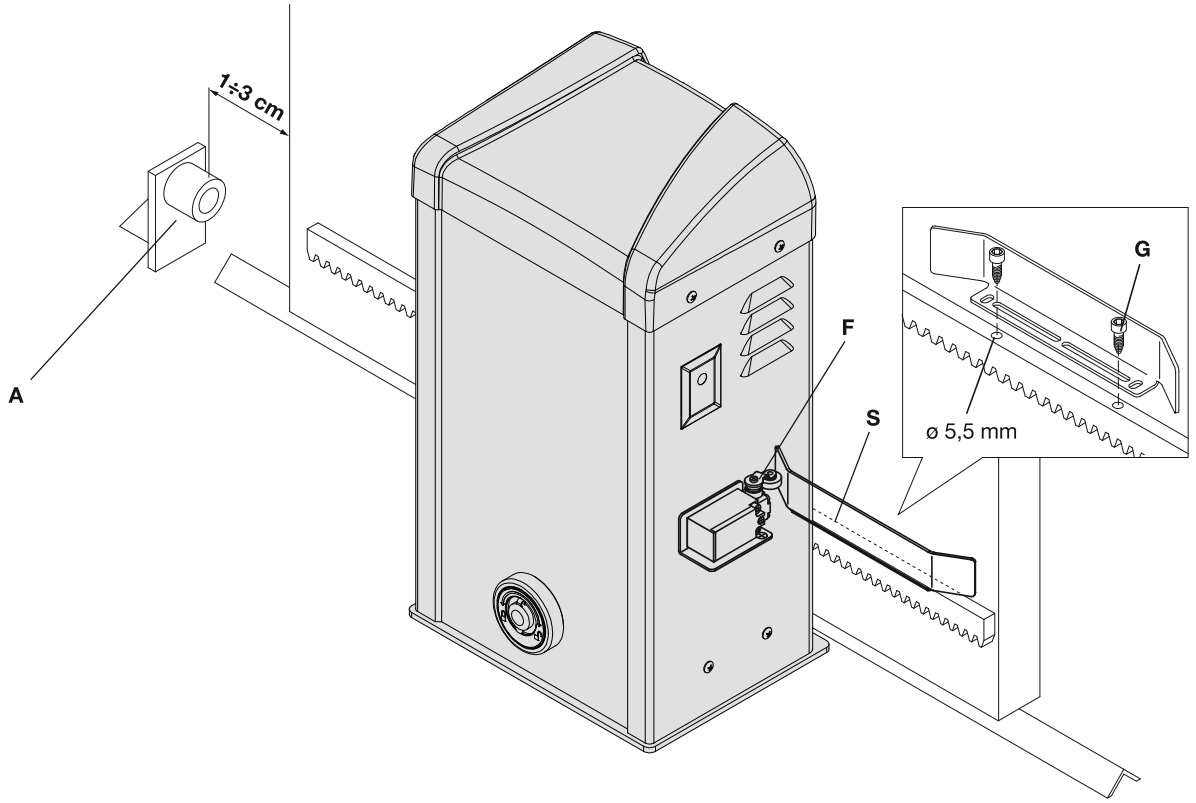

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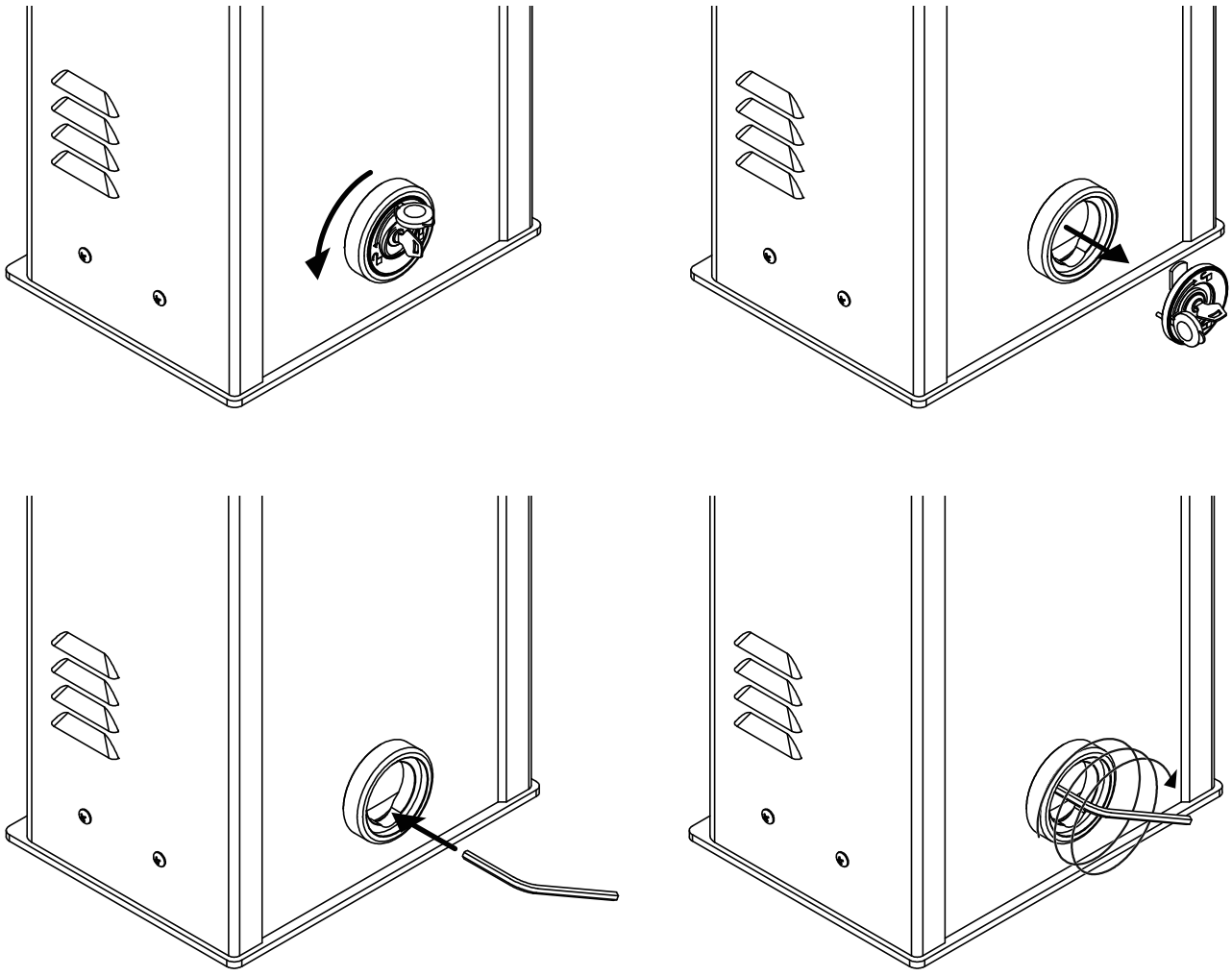

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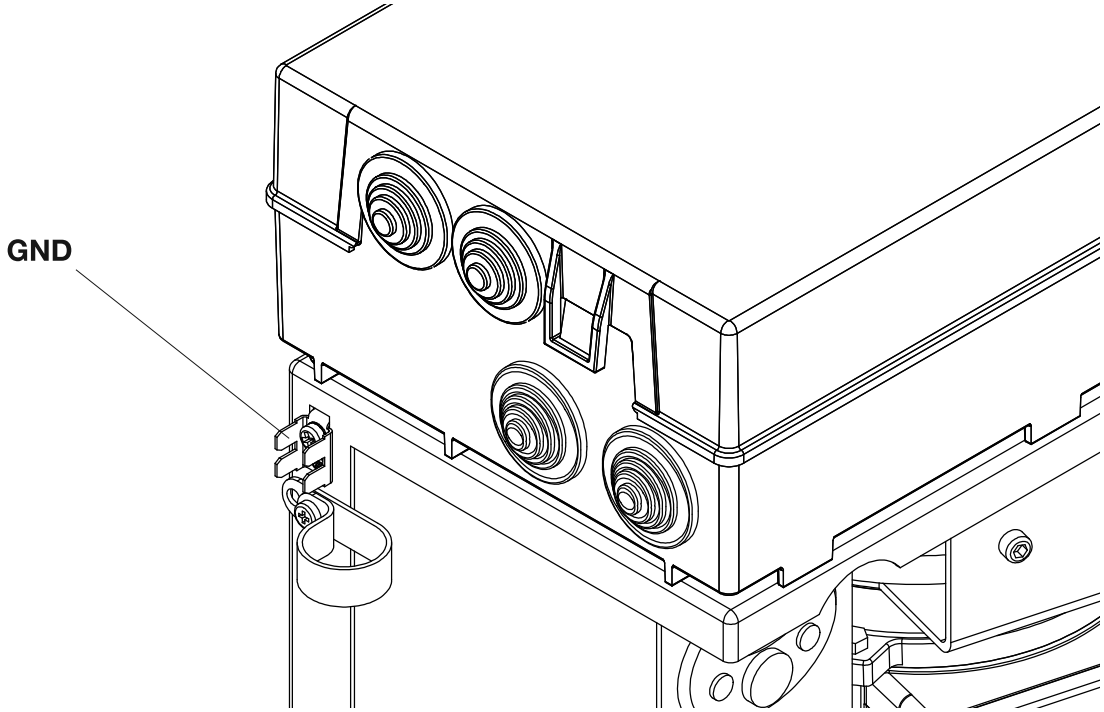

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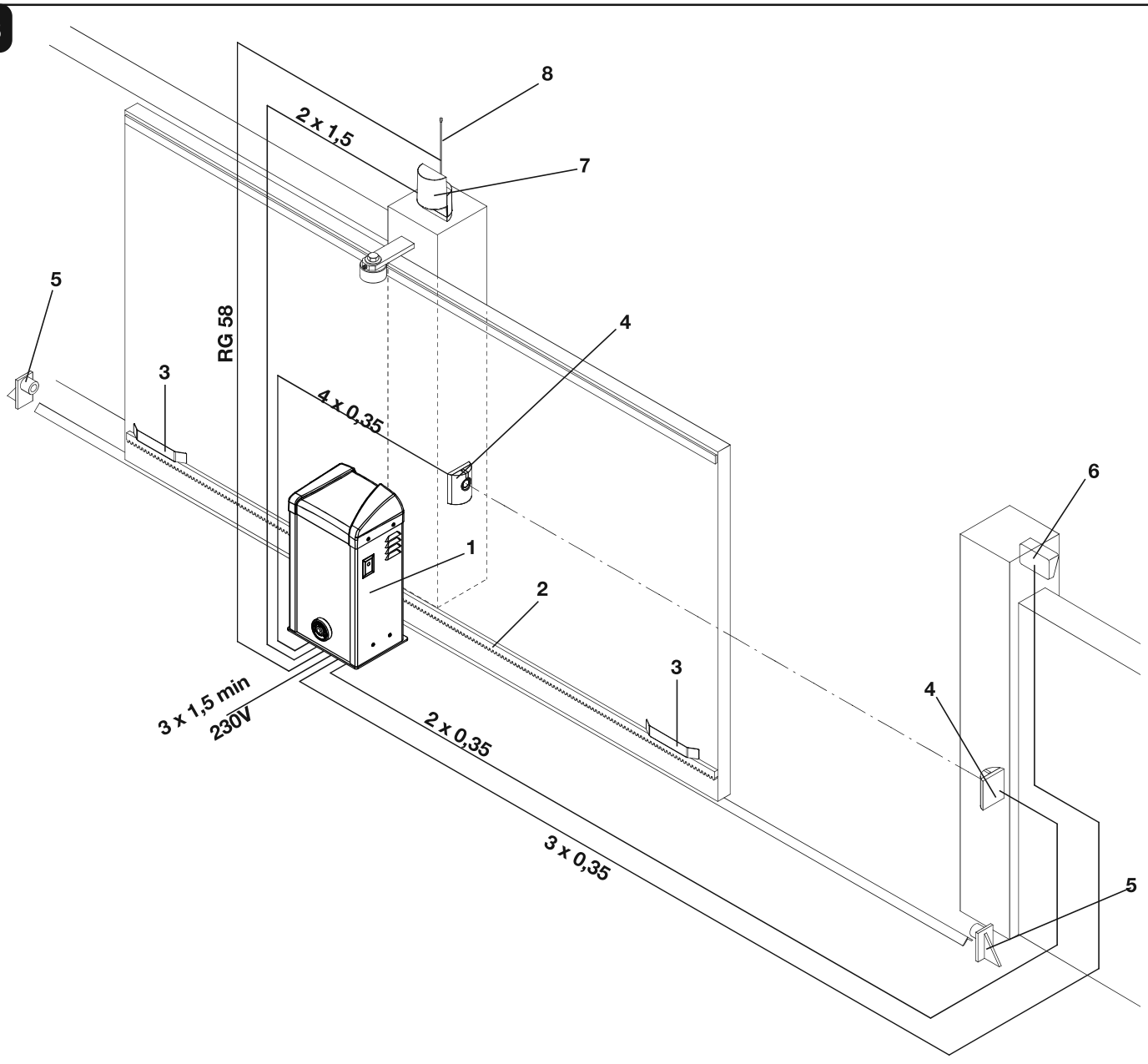

WARNING

The product shall not be used for purposes or in ways other than those for which the product is intended for and as described in this manual. Incorrect uses can damage the product and cause injuries and damages.
The company shall not be deemed responsible for the non-compliance with a good manufacture technique of gates as well as for any deformation, which might occur during use. Keep this manual for further use.

This manual has been especially written to be use by qualified fitters. Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.
Make sure that the structure of the gate is suitable for automation.
The installer must supply all information on the automatic, manual and emergency operation of the automatic system and supply the end user with instructions for use.

Packaging must be kept out of reach of children, as it can be hazardous.
For disposal, packaging must be divided the various types of waste (e.g. carton board, polystyrene) in compliance with regulations in force.
Do not allow children to play with the fixed control devices of the product.
Keep the remote controls out of reach of children.
This product is not to be used by persons (including children) with reduced physical, sensory or mental capacity, or who are unfamiliar with such equipment, unless under the supervision of or following training by persons responsible for their safety.
Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazard. Bear in mind the standards and directives in force, Good Practice criteria, intended use, the installation environment, the operating logic of the system and forces generated by the automated system.
Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 12453.
Only use original accessories and spare parts, use of non-original spare parts will cause the warranty planned to cover the products to become null and void. All the mechanical and electrical parts composing automation must meet the requirements of the standards in force and outlined by CE marking.

An omnipolar switch/section switch with remote contact opening equal to, or higher than 3mm must be provided on the power supply mains.
Make sure that before wiring an adequate differential switch and an overcurrent protection is provided.
Pursuant to safety regulations in force, some types of installation require that the gate connection be earthed.
During installation, maintenance and repair, cut off power supply before accessing to live parts.
Also disconnect buffer batteries, if any are connected.
The electrical installation and the operating logic must comply with the regulations in force.
The leads fed with different voltages must be physically separate, or they must be suitably insulated with additional insulation of at least 1 mm. The leads must be secured with an additional fixture near the terminals.
During installation, maintenance and repair, interrupt the power supply before opening the lid to access the electrical parts
Check all the connections again before switching on the power. The unused N.C. inputs must be bridged.

WASTE DISPOSAL
As indicated by the symbol shown, it is forbidden to dispose this product as normal urban waste as some parts might be harmful for environment and human health, if they are disposed of incorrectly.
Therefore, the device should be disposed in special collection platforms or given back to the reseller if a new and similar device is purchased.
An incorrect disposal of the device will result in fines applied to the user, as provided for by regulations in force.

Descriptions and figures in this manual are not binding. While leaving the essential characteristics of the product unchanged, the manufacturer reserves the right to modify the same under the technical, design or commercial point of view without necessarily update this manual.

GENERAL INFORMATION

Automation with single-phase 230Vac power supply for sliding gates for industrial use (with three-phase motor and inverter) for gates weighing up to 2500 kg.
Equipped with an electronic anti-crushing device (encoder) and electronic braking and with a three-phase inverter that allows the performance of a three-phase motor to be obtained while maintaining the simplicity of a single-phase mains connection.

SPECIFICATIONS

	BISON25 OTI
Mains power supply	230Vac 50/60Hz
Motor power supply	230Vac three-phase
Consumption	8,0 A
Thrust	2500 N
Inverter	YES
Operating jogging	Heavy duty
Protection level	IP44
Operating temperature	-20°C / +50°C
Gate max. weight	2500 kg
Rack module	M4 Z 18
Opening speed	reg. 7-19 m/min
Noise level	<70 dB
Lubrication	BISON OIL
Weight	31 kg

PRELIMINARY CHECKS

For a good operation of the automatic system for sliding gates, the gate/door to be automated shall feature the following characteristics:
- the guide track and related carriers should be adequately sized and subject to maintenance (in order to avert excessive friction during the gate sliding).
- during operation, no excessive oscillations should be reported to the gate/door.
- the opening and closing stroke should be limited to a mechanical stop (according to the current safety regulation).

These preliminary checks are MANDATORY. It is expressly FORBIDDEN to use the BISON automatic system on doors and gates not in good conditions or that have not undergone a correct maintenance.

INSTALLATION

OVERALL DIMENSIONS

Figure 1 shows the overall dimensions of the gear motor, expressed in mm.
Given the remarkable weight of the actuator, the device should be handled by at least 2 persons.
Loosen the 4 “A” screws (Fig. 1) and entirely remove the front side of the system. Now all elements of the systems can be accessed.
If only the control unit is to be reached, it is sufficient to remove the 4 “B” screws by lifting the upper cover.
The niches for the photocell mounting (F) are provided on the motor removable side.

FOUNDATION PLATE - DIMENSIONS

Fig.2 shows the installation dimensions of the foundation plate, expressed in millimetres. Two holes have been drilled on the plate for the passage of cable. When the corrugated pipe is introduced, keep in mind that the hole to be used is the one shown in Figure 2 (ref. C).
The plate should be positioned at 15mm from the floor (with possible adjustment +/- 5mm), 15 mm above floor-level usually avert any water stagnation.
At this height, the lower edge of the rack tooth should be at 132 mm.
If the rack is already installed, a fitting base, raised with respect to the floor, should be required. However, it is not advisable to lower the fitting surface.
If the rack used is the model RI.M4Z, the edge of the plate should lie perfectly parallel with respect to the door leaf and should be positioned at 16 mm. If a different rack is used, find the correct distance by temporarily fitting it to the door/gate leaf, then place the gear motor and check that the pinion and the rack are geared together.

INSTALLATION OF THE FOUNDATION PLATE

Provide for an adequate hole for the foundation.
Prepare the plate by fitting the foundation bolts, as shown in Fig. 3: Tighten the 4 D1 nuts to the foundation bolt T, then insert the plate and fix it with washers and the 4 D2 nuts.
Pour cement on the plate (Fig. 4), taking care that the plate level should lie perfectly flat. Check that the threaded inserts (I) for the fitting screws are clean and cement free.
Wait that the cement hardens, then remove the D2 nuts and R washers (Fig. 5), remove the plate, reinsert the D2 nuts and washers and then replace the plate.
Note: It is also possible to use highly resistant special dowels to fix the foundation plate onto the floor. In this case, make sure that there is no water stagnation.
In any case, the foundation plate should be adequate to the stress exercised on the automatic system.

HOW TO FIT THE GEAR MOTOR

Place to gear motor on the foundation plate, as shown in Figure 6, by inserting the slots “F” on the threaded inserts “I”.
Fix the gear motor to the base, by using the washers R, the threaded washers Z and nuts D.
The threaded holes allow for the horizontal movement of the gear motor, which is required to gear/ungear the pinion to the rack.

HOW TO ADJUST THE HEIGHT OF THE GEAR MOTOR

By acting on the nuts under the foundation plate, the height of the gear motor can be adjusted (Fig. 7).
Do not raise the plate for more than 20 mm in order not to exercise excessive stress onto the foundation bolts.

HOW TO FIT THE RACK

Place the D spacers (Fig. 8) and weld or fit them with screw s onto the gate, keeping to overall dimensions shown in Figure 2, taking also account the possible adjustment of the foundation plate shown in Figure 7. Lastly, fix the rack.
Keep to the tooth pitch P, even from the rack spaces. To this purpose, it might be useful to match another piece of rack (Fig. 8 - Detail C).
Lastly fix the rack with screws V, making sure that, once the actuator is installed, around 2 mm backlash is left between the rack and the drive wheel (see Fig. 9). To this purpose, also use the slots on the rack.

HOW TO POSITION THE LIMIT SWITCH BRACKETS

Manually open the gate, leaving 1 – 3 cm space, according to the weight of the gate, between the gate/door and the mechanical stopper A (Fig. 10).
Then fix the bracket of the limit switch S in order that the micro-switch F of the limit switch is kept pressed.
After drilling two holes of ø 5.5mm, use the two screws G supplied.
Repeat this operation with closed gate/door.

NOTE: The limit switch bracket should be positioned in order to allow that the gate/door stops its movement without hitting the mechanical stopper.

MANUAL OPERATION

In the event of power failure or faults, the gate can be manually operated as follows (Fig.11):

- Open the protective cap from the lock, introduce the customized key supplied and turn it by 90° anti-clockwise.
- Remove the lock group, introduce the hexagonal key supplied, and repeatedly turn clockwise the system until it reaches its limit switches.
- The gear motor is released and the gate can be manually opened or closed.
- To reset the normal operation, introduce the hexagonal key once again, and turn it repeatedly anti-clockwise, until it stops.
- Apply the lock group again, making sure that the anti-rotation pin be introduced in the hole on the gear group.
- Turn the key clockwise, then remove it and close the protection cap again.

CONNECTION TO GROUND (EARTH)

As regards the COMPULSORY earthing, a special Faston 4-pin connector fitted onto the central support (Fig. 12 – GND) is supplied. Ground connections of the mains, the upper removable side and the lower side can be connected to this Faston.

To allow an easy removal of the sides, they are not supplied pre-cabled to the connector. The installer shall provide for their connection, by using the already equipped with Faston terminal.

As regards the ground connection of the power supply line refer to instructions in the control unit.

WIRE DIAGRAM

Figure 13 shows the cables to the preset for the installation of the gear motor and the main accessories.

As regards the wire connection of the automatic system and the adjustment of the operating modes, see the instruction manual of the control unit.

Namely, the calibration of the anti-crash device sensitivity (encoder) should be carried out in compliance with regulations in force.

Before introducing the cables, check the type of cabling required for the accessories actually used.

Key of components:

1 Gear motor with BISON built-in control unit.
2 Rack
3 Limit switch brackets
4 Photocells
5 Mechanical stoppers
6 Key selector or digital keypad
7 Flashing light
8 Antenna

Note: The removable side of the BISON gear motor comes already preset for the mounting of the FTC.S photocells.

SAFETY MEASURES

- Do not stand within the gate movement area.
- Children must not play with controls and near the gate.
- In the event of malfunctions, do not attempt to repair the failure but contact the specialised personnel.

MANUAL OPERATION

In the event of power failure or faults, the gate can be manually operated as follows (Fig.1):

- Open the protective cap from the lock, introduce the customized key supplied and turn it by 90° anti-clockwise.
- Remove the lock group, introduce the hexagonal key supplied, and repeatedly turn clockwise the system until it reaches its limit switches.
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- To reset the normal operation, introduce the hexagonal key once again, and turn it repeatedly anti-clockwise, until it stops.
- Apply the lock group again, making sure that the anti-rotation pin be introduced in the hole on the gear group.
- Turn the key clockwise, then remove it and close the protection cap again.

MAINTENANCE

- Every month check the good operation of the emergency manual release.
- It is mandatory not to carry out extraordinary maintenance or repairs as accidents may be caused.These operations must be carried out by qualified personnel only.
- The operator is maintenance free but it is necessary to check periodically if the safety devices and the other components of the automation system work properly. Wear and tear of some components could cause dangers.

WASTE DISPOSAL

As indicated by the symbol shown, it is forbidden to dispose this product as normal urban waste as some parts might be harmful for environment and human health, if they are disposed of incorrectly. Therefore, the device should be disposed in special collection platforms or given back to the reseller if a new and similar device is purchased. An incorrect disposal of the device will result in fines applied to the user, as provided for by regulations in force.

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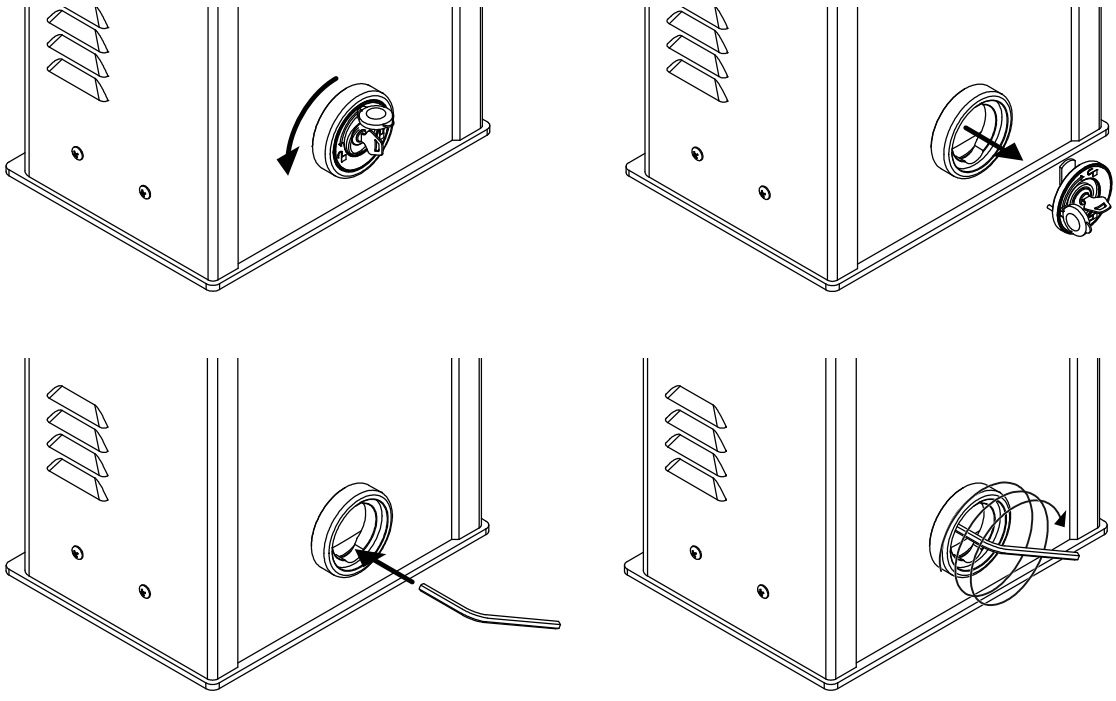

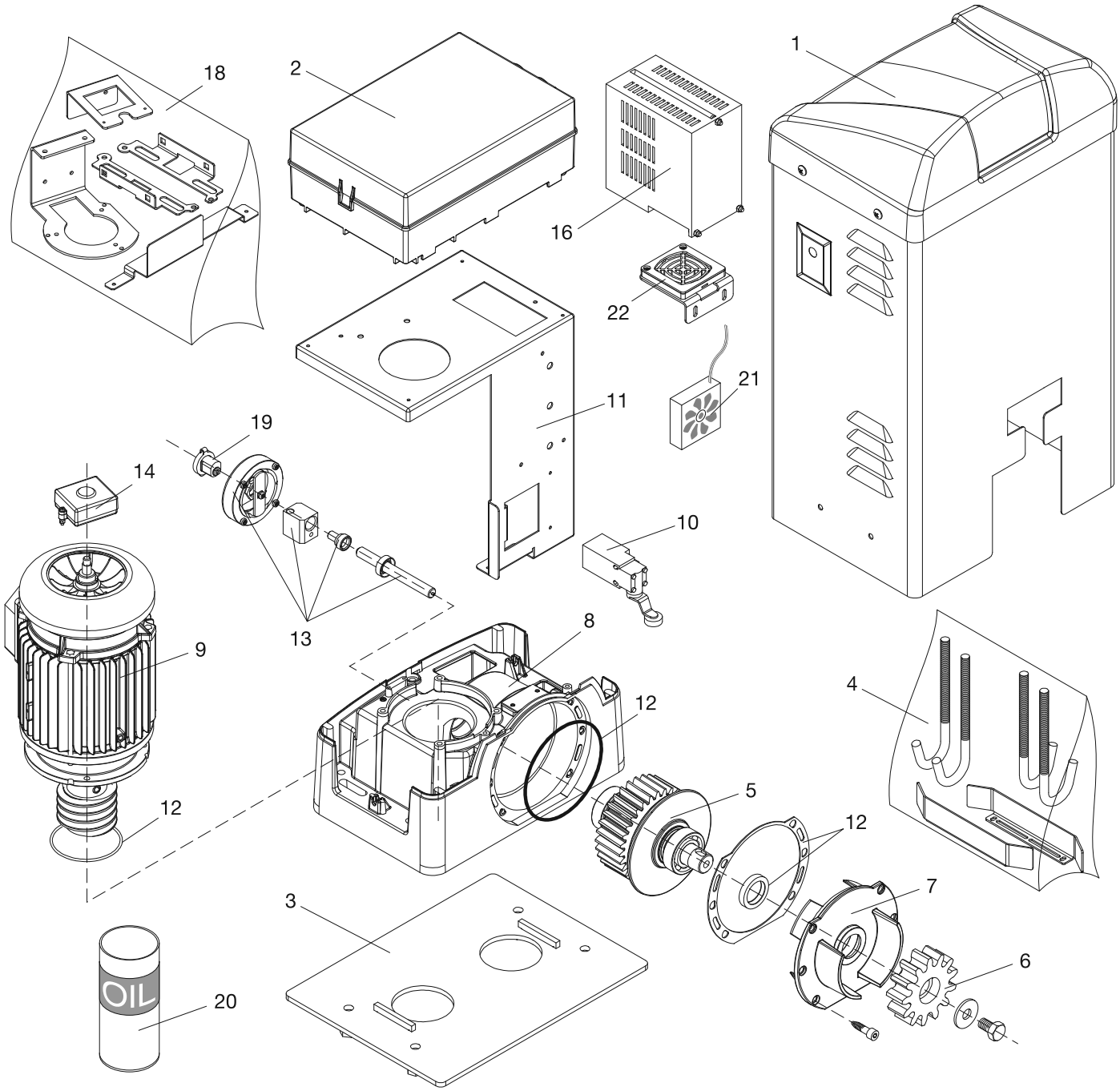

BISON 25 OTI		
Ref.	**Code**	**Note**
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2	968603008	
3	9686554	
4	9686648	
5	9686649	
6	9686032	
7	9686335	
8	9688319	
9	968603004	
10	9686663	
11	968602845	

Ref.	**Code**	**Note**
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14	9760021	MAG.E
15	---	
16	968602846	
17	---	
18	9686699	
19	9686980	
20	9688109	5LT
21	968602847	
22	968602945	

EU Certificato di Conformità (DOC)

Nome del produttore: Automatismi Benincà SpA
Indirizzo: Via Capitello, 45
Codice postale e Città: 36066 - Sandrigo (VI) - Italia
Telefono: +39 0444 751030
E-mail: sales@beninca.it

Dichiara che il documento è rilasciato sotto la propria responsabilità e appartiene al seguente prodotto:

Modello/Tipo: BISON 20 OM / BISON 25 OTI

Tipo di prodotto: Attuatore elettromeccanico 230Vac per cancelli scorrevoli

Il prodotto sopraindicato risulta conforme alle disposizioni imposte dalle seguenti direttive:

Direttiva 2014/53/EU
Direttiva 2011/65/EU
Direttiva 2006/42/CE

Sono state applicate le norme armonizzate e le specifiche tecniche descritte di seguito:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012
EN 13241-1:2003
EN 12445:2002, EN 12453:2002, EN 12978:2003 (se applicabile)

Organismo notificato (se applicabile):

Ulteriori informazioni:

Firmato per conto di:
Sandrigo, 24/10/2018 Luigi Benincà, Responsabile legale

EU Declaration of Conformity (DOC)

Manufacturer's name: Automatismi Benincà SpA
Postal Address: Via Capitello, 45
Post code and City: 36066 - Sandrigo (VI) - Italia
Telephone number: +39 0444 751030
E-mail address: sales@beninca.it

Declare that the DOC is issued under our sole responsibility and belongs to the following product:

Model/Product: BISON 20 OM / BISON 25 OTI

Type: Electromechanical actuator 230Vac for sliding gates

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Directive 2014/53/EU
Directive 2011/65/EU
Directive 2006/42/CE

The following harmonized standards and technical specifications have been applied:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012
EN 13241-1:2003
EN 12445:2002, EN 12453:2002, EN 12978:2003 (as applicable)

Notified body (where applicable):

Additional information:

Signed for and on behalf of:
Sandrigo, 24/10/2018 Luigi Benincà, Responsabile legale

EG-Konformitätserklärung (DOC)

Name des Herstellers: Automatismi Benincà SpA
Adresse: Via Capitello, 45
Codice postale e Città: 36066 - Sandrigo (VI) - Italia
Telefon: +39 0444 751030
E-mail: sales@beninca.it

Erklärt, dass das Dokument unter alleiniger Verantwortung herausgegeben wurde und zu dem folgenden Produkt ge-hört:MM

Modell/Produkt: BISON 20 OM / BISON 25 OTI

Type: Elektromechanischer 230Vac-Antrieb für Schiebetore

Das oben genannte Produkt stimmt mit den Vorschriften der folgenden Richtlinien überein:

Richtlinie 2014/53/EU
Richtlinie 2011/65/EU
Richtlinie 2006/42/CE

Die harmonisierten Normen und technischen Spezifikationen, die unten beschrieben werden, wurden angewandt:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012
EN 13241-1:2003
EN 12445:2002, EN 12453:2002, EN 12978:2003(falls anwendbar)

Benannte Stelle (falls zutreffend):

Weitere Informationen:

Unterzeichnet für und im Auftrag von:
Sandrigo, 24/10/2018 Luigi Benincà, Responsabile legale

Déclaration CE de conformité (DOC)

Nom du producteur : Automatismi Benincà SpA
Adresse: Via Capitello, 45
Ville et code postal: 36066 - Sandrigo (VI) - Italia
Téléphone: +39 0444 751030
E-mail: sales@beninca.it

Nous déclarons que le document est délivré sous notre propre responsabilité et qu'il appartient au produit suivant:

Modèle/Type: BISON 20 OM / BISON 25 OTI

Type de produit: Actionneur électromécanique 230Vac pour portails coulissants

Le produit mentionné ci-dessus est conforme aux dispositions établies par les directives suivantes:

Directive 2014/53/EU
Directive 2011/65/EU
Directive 2006/42/CE

Les normes harmonisées et les spécifications techniques décrites ci-dessous ont été appliquées:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012
EN 13241-1:2003
EN 12445:2002, EN 12453:2002, EN 12978:2003 (si applicable)

Organisme notifié (le cas échéant):

Plus d'informations:

Signé pour et au nom de:
Sandrigo, 24/10/2018 Luigi Benincà, Responsabile legale

Declaración CE de conformidad (DOC)

Nombre del productor: Automatismi Benincà SpA
Dirección: Via Capitello, 45
Ciudad y código postal: 36066 - Sandrigo (VI) - Italia
Teléfono: +39 0444 751030
E-mail: sales@beninca.it

Declara que el documento ha sido emitido bajo la propia responsabilidad y pertenece al siguiente producto:

Modelo/Tipo: BISON 20 OM / BISON 25 OTI

Tipo de producto: Motorreductor electromecánico 230Vac para portones correderos

El producto indicado arriba cumple con las disposiciones establecidas por las siguientes directivas:

Directiva 2014/53/EU
Directiva 2011/65/EU
Directiva 2006/42/CE

Han sido aplicadas las normas armonizadas y las especificaciones técnicas que se describen a continuación:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012
EN 13241-1:2003
EN 12445:2002, EN 12453:2002, EN 12978:2003 (si es aplicable)

Organismo notificado (en su caso):

Más información:

Firmado en nombre de:
Sandrigo, 24/10/2018 Luigi Benincà, Responsabile legale

Deklaracja zgodności CE (DOC)

Nazwa producenta: Automatismi Benincà SpA
Adres: Via Capitello, 45
Kod pocztowy i miasto: 36066 - Sandrigo (VI) - Italia
Telefon: +39 0444 751030
Adres e-mail: sales@beninca.it

Oświadcza, że dokument został wydany na własną odpowiedzialność i dotyczy produktu:

Model/Typ: BISON 20 OM / BISON 25 OTI

Rodzaj produktu: Urządzenie automatyzacji bram 230Vac przesuwnych

Wyżej wskazany produkt spełnia wymagania dyrektyw:

Dyrektywy 2014/53/EU
Dyrektywy 2011/65/EU
Dyrektywy 2006/42/CE

Uwzględniono normy zharmonizowane i zastosowano niżej wskazane specyfikacje techniczne:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012
EN 13241-1:2003
EN 12445:2002, EN 12453:2002, EN 12978:2003 (jeśli ma zastosowanie)

Jednostka notyfikowana (stosownych przypadkach):

Dodatkowe informacje:

Podpisano w imieniu:
Sandrigo, 24/10/2018 Luigi Benincà, Responsabile legale

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