



AUTOMATIC ENTRANCE SPECIALISTS

CE

OBBI3BH

IP1639 - rev. 2005-05-20



- I** Manuale di installazione e manutenzione per automazioni per cancelli a battente.
- GB** Installation and Maintenance manual for swing gates.
- F** Manuel d'installation et d'entretien pour portes à battant.
- D** Montage und Wartungshandbuch für Drehtorantriebe.
- E** Manual para la instalación y la manutención para automatización para cancelas batientes.
- P** Instalação e Manutenção manual para portões de balanço.



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ISO 9001
Cert. n° 0957

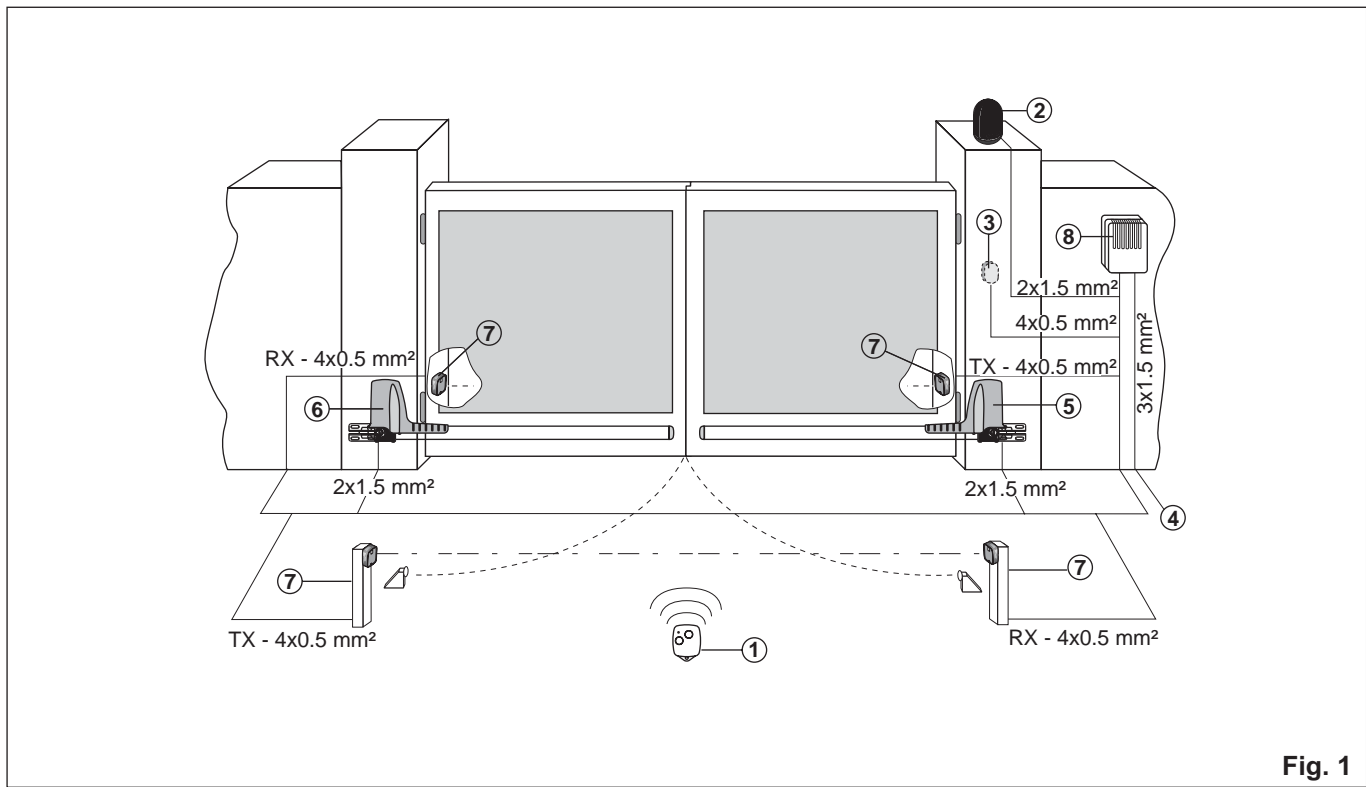


Fig. 1

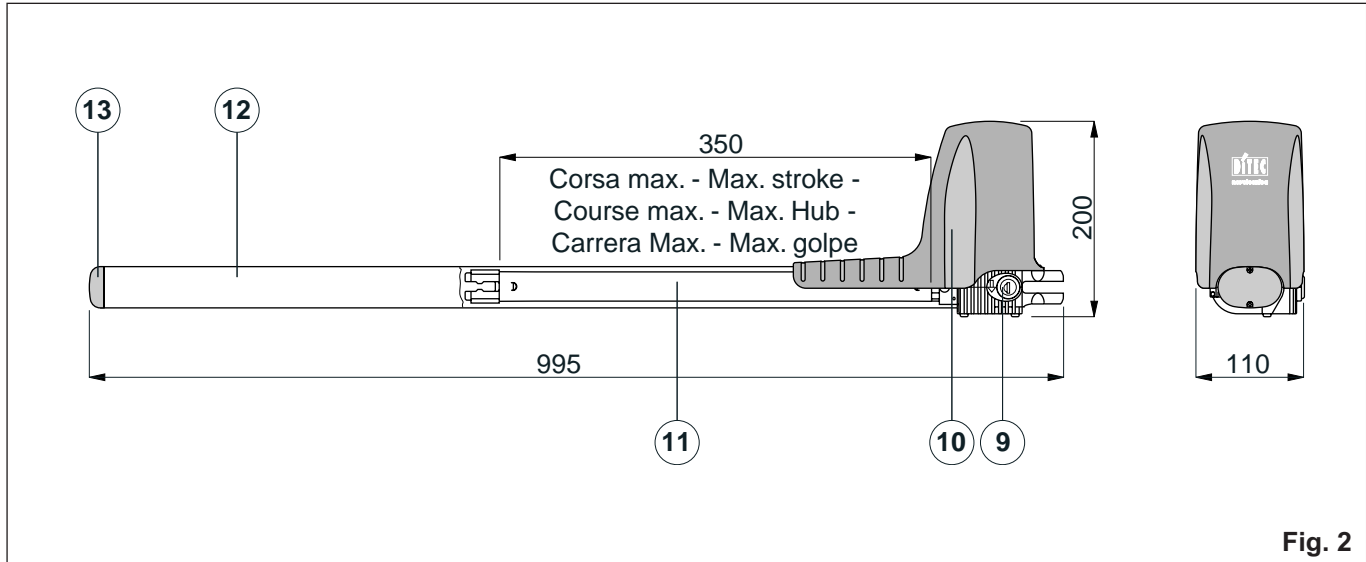
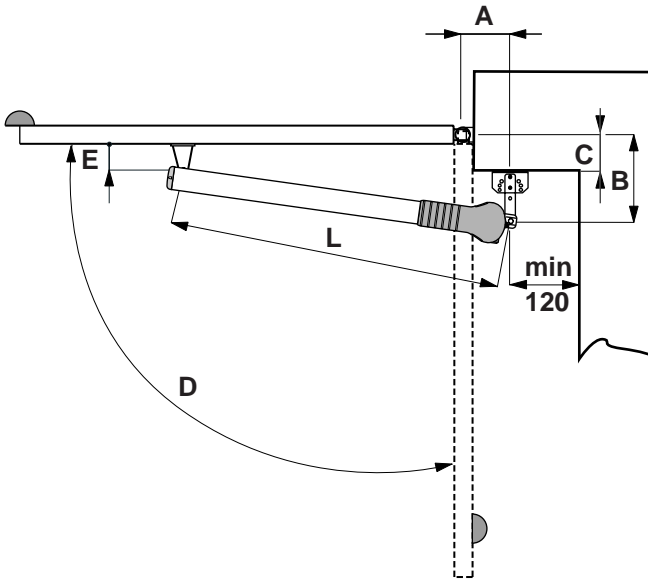


Fig. 2



A	B	C max (90°)	D max	E	L
150	150	85	100°	75	910
120	160	95	100°	75	910
120	180	115	110°	75	910
160	120	55	110°	75	910

Fig. 3

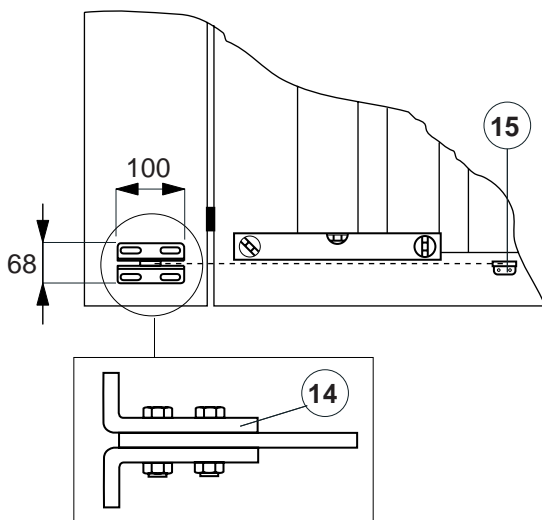
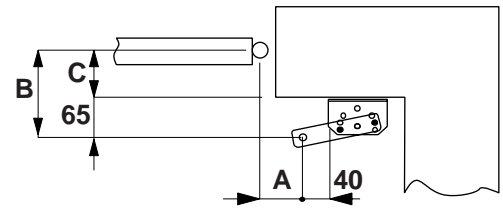
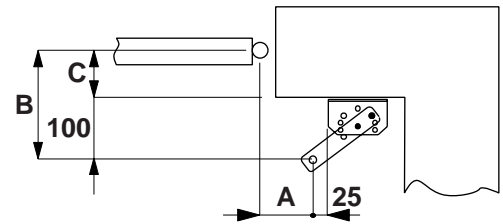


Fig. 4

Esempio nr. 1 - Example nr. 1 - Exemple nr. 1 - Beispiel Nr. 1 - Ejemplo nr. 1 - Exemplo n. 1



Esempio nr. 2 - Example nr. 2 - Exemple nr. 2 - Beispiel Nr. 2 - Ejemplo nr. 2 - Exemplo n. 1



Esempio nr. 3 - Example nr. 3 - Exemple nr. 3 - Beispiel Nr. 3 - Ejemplo nr. 3 - Exemplo n. 1

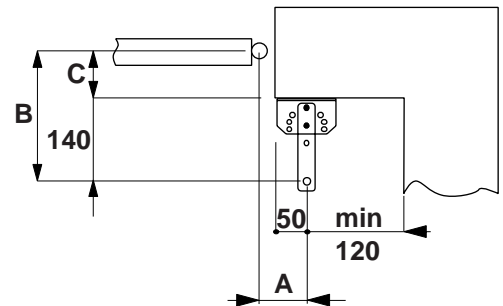
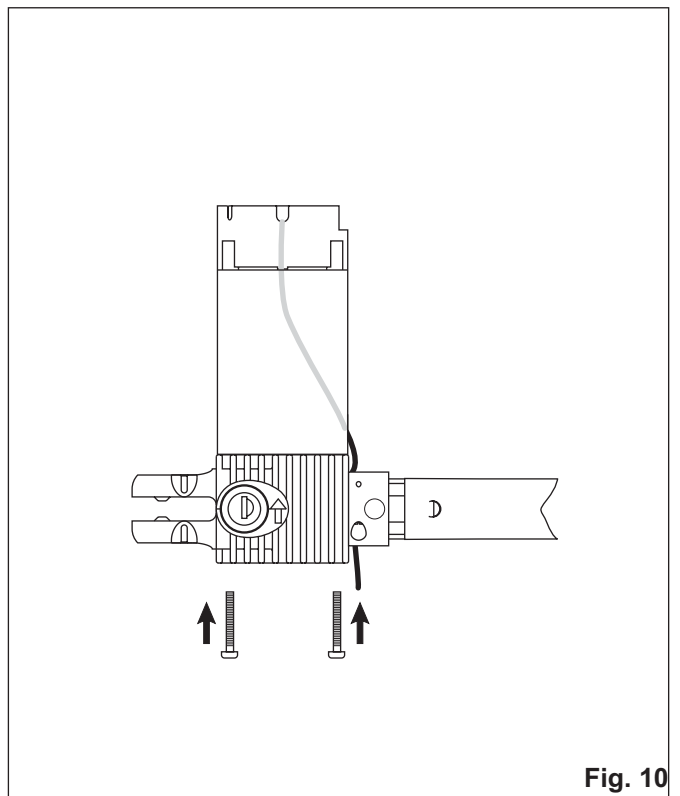
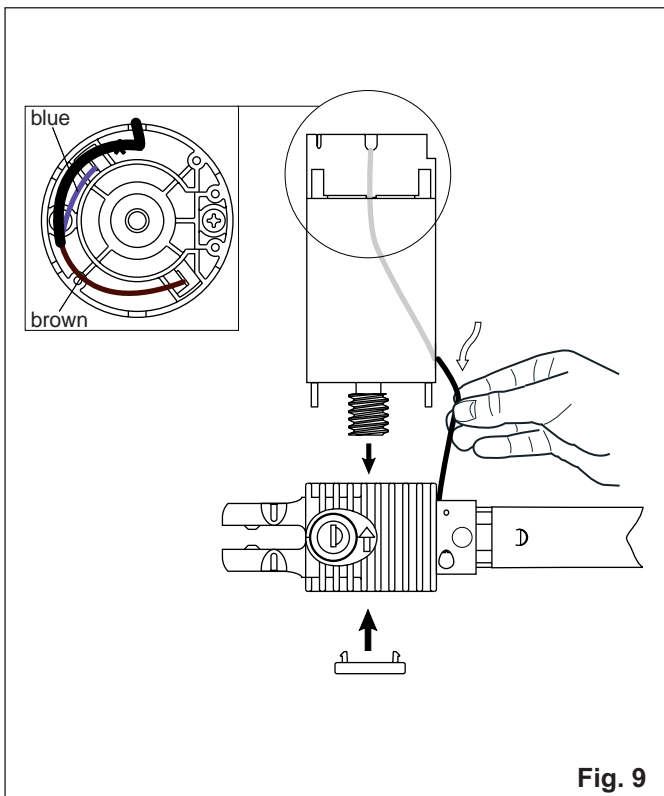
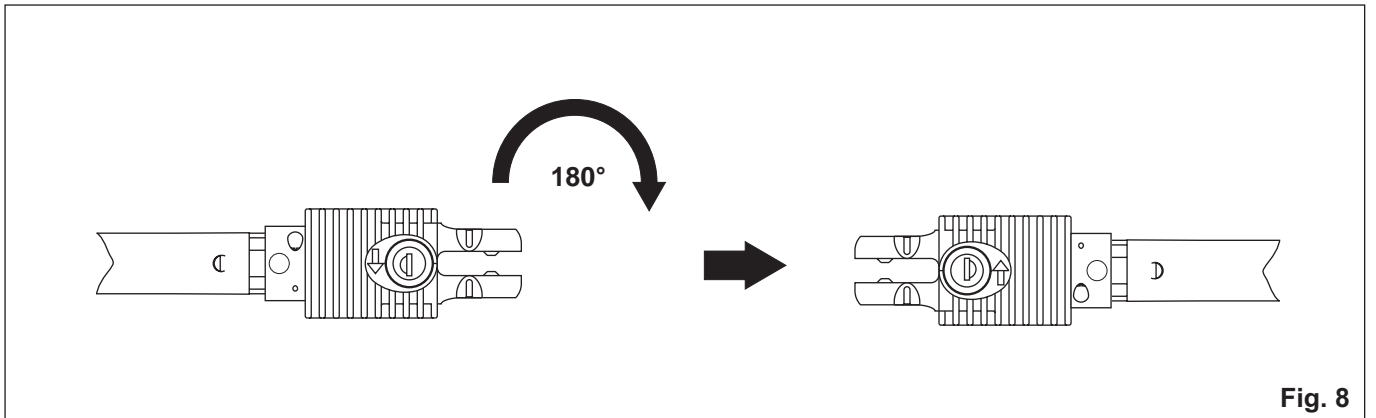
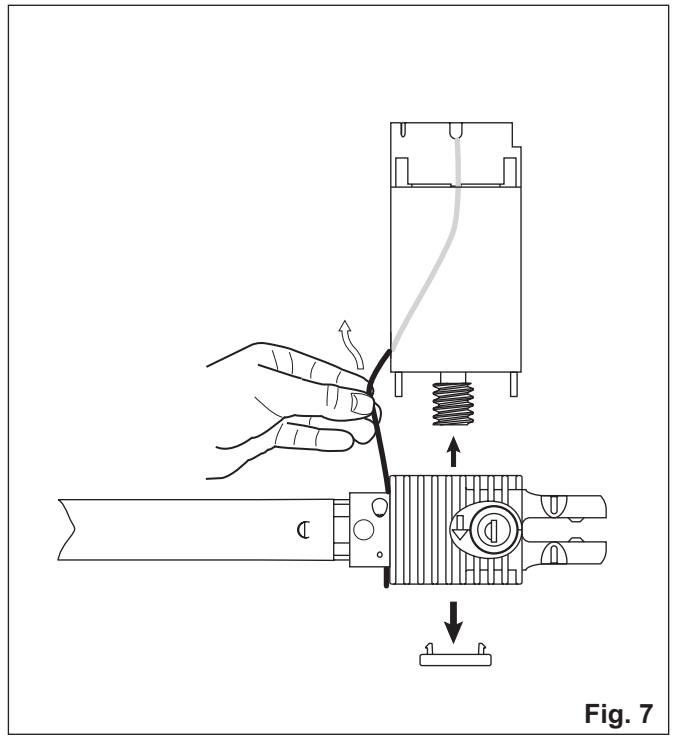
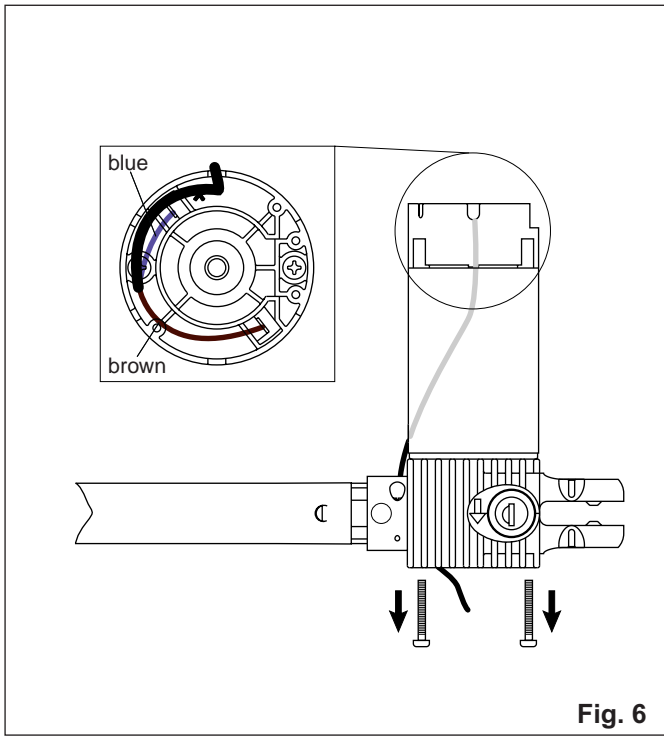


Fig. 5



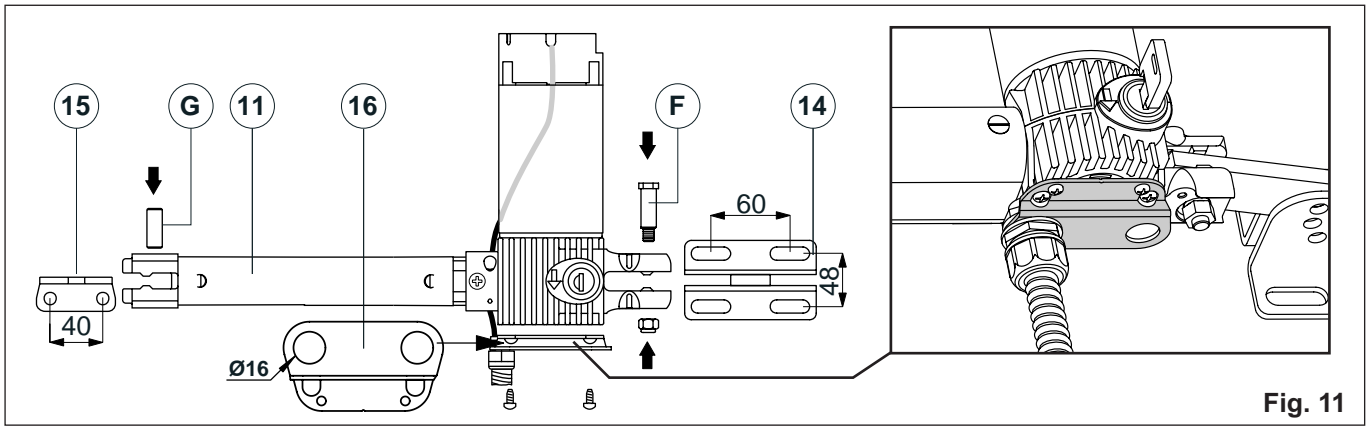


Fig. 11

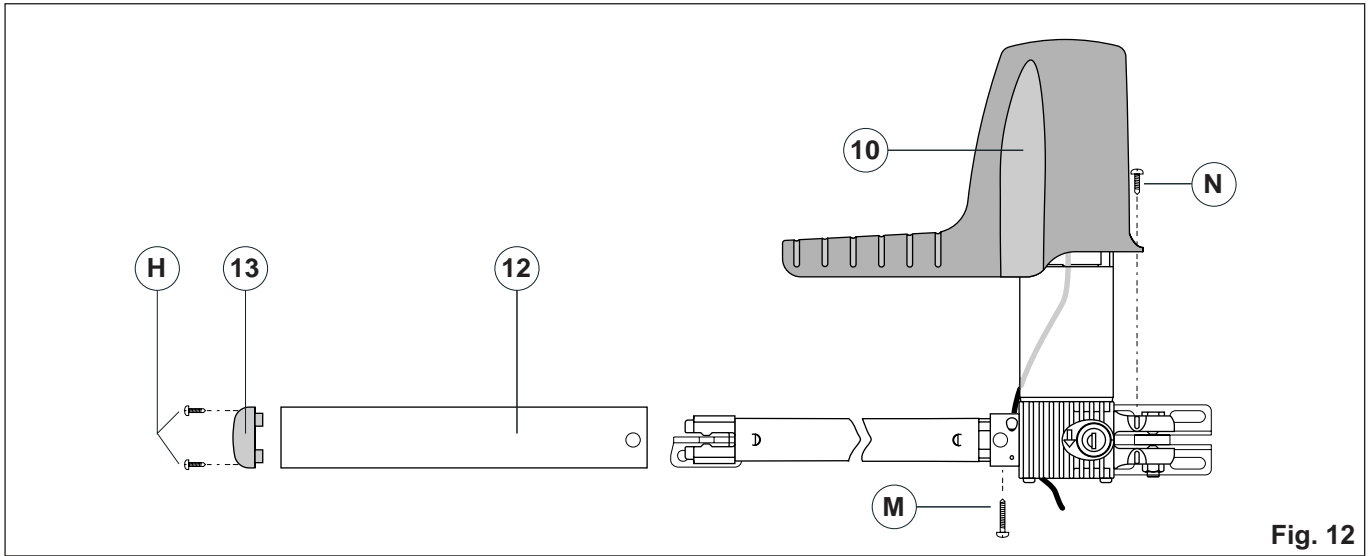


Fig. 12

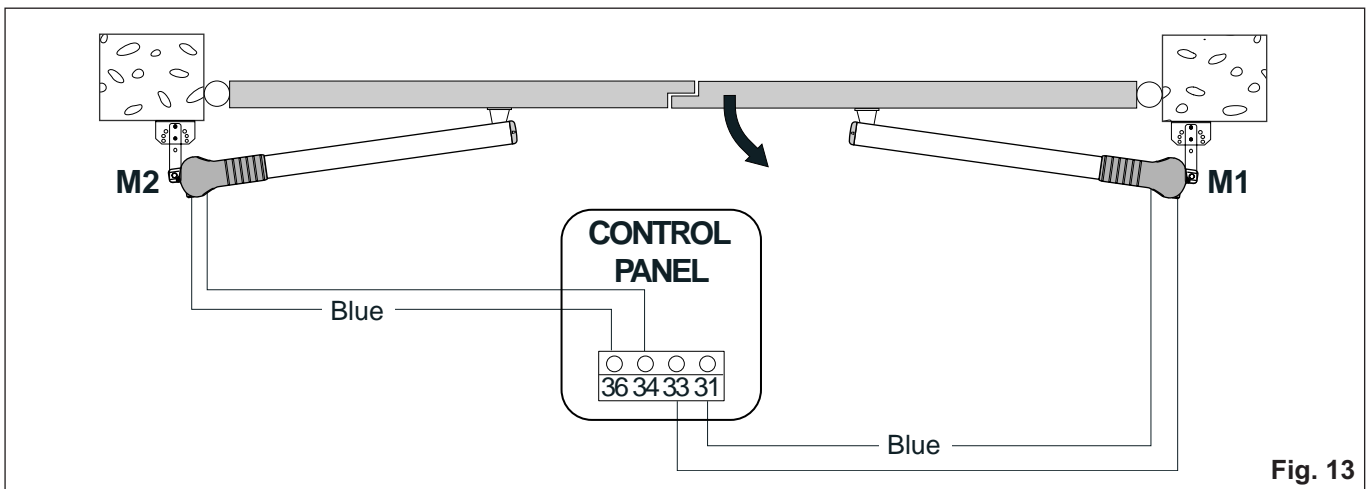


Fig. 13

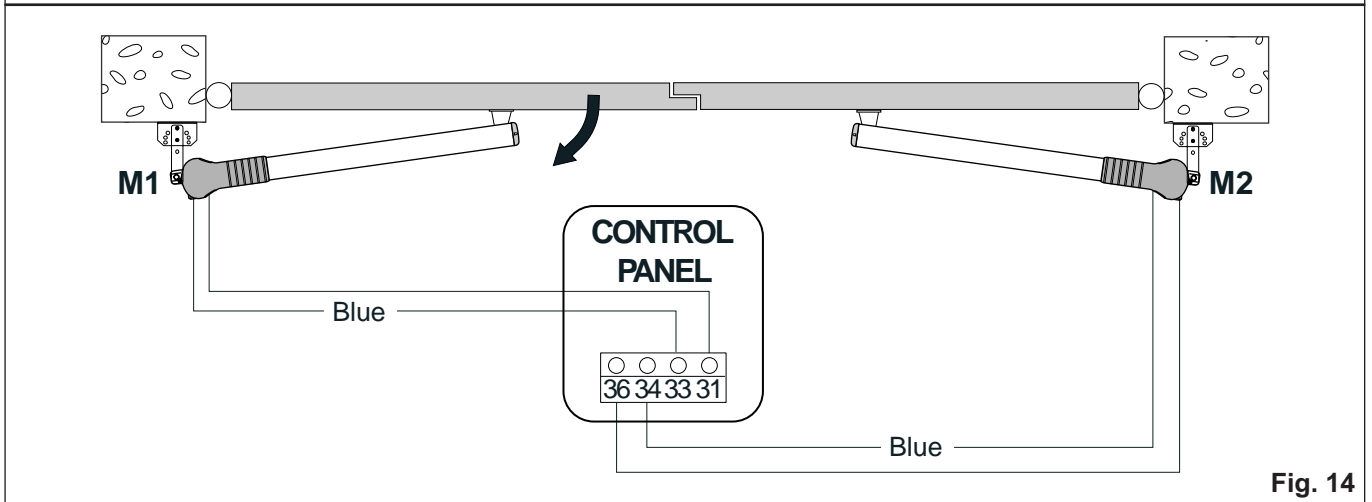


Fig. 14

GENERAL SAFETY PRECAUTIONS



This installation manual is intended for professionally competent personnel only.

The installation, the electrical connections and the settings must be completed in conformity with good workmanship and with the laws in force. Read the instructions carefully before beginning to install the product. Incorrect installation may be a source of danger. Packaging materials (plastics, polystyrene, etc) must not be allowed to litter the environment and must be kept out of the reach of children for whom they may be a source of danger. Before beginning the installation check that the product is in perfect condition. Do not install the product in explosive areas and atmospheres: the presence of flammable gas or fumes represents a serious threat to safety.

Before installing the motorisation device, make all the structural modifications necessary in order to create safety clearance and to guard or isolate all the compression, shearing, trapping and general danger areas. Check that the existing structure has the necessary strength and stability. The manufacturer of the motorisation device is not responsible for the non-observance of workmanship in the construction of the frames to be motorised, nor for deformations that may occur during use. The safety devices (photoelectric cells, mechanical obstruction sensor, emergency stop, etc) must be installed taking into account: the provisions and the directives in force, good workmanship criteria, the installation area, the functional logic of the system and the forces developed by the motorised door or gate. The safety devices must protect against compression, shearing, trapping and general danger areas of the motorized door or gate. Display the signs required by law to identify danger areas. Each installation must bear a visible indication of the data identifying the motorised door or gate.



Before connecting to the mains check that the rating is correct for the destination power requirements.

A multipolar isolation switch with minimum contact gaps of 3 mm must be included in the mains supply.

Check that upstream of the electrical installation there is an adequate differential switch and a suitable circuit breaker.

When requested, connect the motorized door or gate to an effective earthing system carried out as indicated by current safety standards. During installation, maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts.



The electronic parts must be handled using earthed anti-static conductive arms. The manufacturer of the motorising device declines all responsibility in cases where components which are incompatible with the safe and correct operation of the product only original spare parts must be used. For repairs or replacements of products only original spare parts must be used. The fitter must supply all information concerning the automatic, the manual and emergency operation of the motorised door or gate, and must provide the user the device with the operating instructions. It is recommended that antistatic conductive earthed arm bands be worn when manipulating electronic parts.

MACHINE DIRECTIVE

Pursuant to Machine Directive (98/37/EC) the installer who motorises a door or gate has the same obligations as a machine manufacturer and shall:

- prepare technical documentation containing the documents indicated on Schedule V of the Machine Directive;
(The technical documentation shall be kept and placed at the disposal of competent national authorities for at least ten years

- starting on the date of manufacture of the motorised door);
- draw up the EC declaration of conformity according to Schedule II-A of the Machine Directive;
- affix the CE mark on the motorised door pursuant to para. 1.7.3 of Schedule I of the Machine Directive.

For more details, refer to the "Guidelines for producing technical documentation" available on Internet at the following address: www.ditec.it

APPLICATIONS

OBBI3BH

Service life: 3 (minimum 10+5 years of working life with 30+60 cycles a day)

Applications: FREQUENT (For vehicle or pedestrian accesses to town houses or small condominiums with frequent use).

- Performance characteristics are to be understood as referring to the recommended weight (approx. 2/3 of maximum permissible weight). A reduction in performance is to be expected when the access is made to operate at the maximum permissible weight.
- Service class, running times, and the number of consecutive cycles are to be taken as merely indicative having been statistically determined under average operating conditions, and are therefore not necessarily applicable to specific conditions of use. During given time spans product performance characteristics will be such as not to require any special maintenance.
- The actual performance characteristics of each automatic access may be affected by independent variables such as friction, balancing and environmental factors, all of which may substantially alter the performance characteristics of the automatic access or curtail its working life or parts thereof (including the automatic devices themselves). When setting up, specific local conditions must be duly borne in mind and the installation adapted accordingly for ensuring maximum durability and trouble-free operation.

DECLARATION BY THE MANUFACTURER

(Directive 98/37/EC, Annex II, sub B)

Manufacturer: DITEC S.p.A.

Address: via Mons. Banfi, 3

21042 Caronno Pertusella (VA) - ITALY

Herewith declares that the electromechanical automatic system series OBBI:

- is intended to be incorporated into machinery or to be assembled with other machinery to constitute machinery covered by Directive 98/37/EC;
- is in conformity with the provisions of the following other EEC directives:
Electromagnetic Compatibility Directive 89/336/EEC;
Low Voltage Directive 73/23/EEC;

and furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of Directive 98/37/EC and with national implementing legislation.

Caronno Pertusella, 12/02/1998

Fermo Bressanini

(Chairman)
Bressanini Fermo

1. TECHNICAL DATA	Obbi 3BH
Power supply	24 V=
Absorption	3 A
Motor power	24 W
Geared motor torque	1500 N
Max. stroke	350 mm
Stroke time	25 s / 90°
Intermittence	S2= 30 min / S3= 50%
Temperature	-15° C / +50° C
Degree of protection	IP54
Wing dimension m = door width kg = door weight <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #808080; margin-right: 5px;"></div> Reccomended dimensions </div> <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="width: 15px; height: 15px; background-color: #D3D3D3; margin-right: 5px;"></div> Limit dimensions </div>	

2. REFERENCE TO ILLUSTRATION

The given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

2.1 Standard installation references (fig. 1)

- [1] Radio
- [2] Flashing light
- [3] Key selector
- [4] Connect power supply to a type-approved omnipolar switch with a contact opening gap of no less than 3 mm (not supplied by us) protected against accidental and unauthorized activation.
- [5] Right geared motor
- [6] Left geared motor
- [7] Photocells
- [8] Electric board

2.2 Geared motor reference (fig. 2-4)

- [9] Release
- [10] Housing
- [11] Draft tube
- [12] Tube cover
- [13] Closing plug
- [14] Tail bracket
- [15] Head bracket
- [16] Cable guide sheath hooking bracket

3. INSTALLATION

3.1 Preliminary checks

Check that the structure is sufficiently sturdy and that the hinge pivots are properly lubricated. Provide an opening and closing stop.

Geared motor installation

Unless otherwise specified, all measurements are expressed in millimetres.

3.2 Check the mounting dimensions (fig. 3) as a function of the distance between the wing hinge pivot and the edge of pillar [C] and of the desired opening angle [D].

3.3 The geared motor is normally supplied in the right-handed version. To convert it to the left-handed version, proceed as follows (see from Figs. 6 to 10):

- Loosen the motor clamping screws (Fig. 6).
- Remove the motor and the reduction gear plug, and slide out the motor cable (Fig. 7).
- Rotate the reduction gear by 180 degrees (Fig. 8).
- With the reduction gear in this position, fit in the motor and the plug and route the cable in (Fig. 9).
Attention: Take care to mount the motor so that the cable comes to be on the opposite side of the release.
- Fit in and secure the motor clamping screws (Fig. 10).

3.4 Secure the tail bracket [14] (Fig. 4) according to dimensions [A] and [B] (shown in Fig. 3) selected as a function of the desired opening angle [D]. The tail bracket is provided with holes to facilitate mounting (fig. 5).

Note: The installation measurements given in the table in Figure 3 permit to select the values for [A] and [B] according to the desired opening angle and with reference to existing room and spaces. Compliance with the measurement given in the table is recommended, modifying the brackets provided, if so required.

In order to ensure smooth gate movement, check that measurements [A] and [B] are the same. Increasing [A] reduces the coming up speed during opening. Increasing [B] diminishes the coming up speed during closing and improves burglar-proofing. Reducing [B] increases the extent of gate opening. Measurements [A] and [B] must in any case be compatible with the useful travel of the piston so that; if [A] is increased, [B] must be diminished and vice versa.

- 3.5 Fit the piston onto tail bracket [14] by means of the pin [F] provided (fig. 11).
- 3.6 Unscrew the piston draft tube [11] out to its full length and retighten it of approx. 20 mm (see dimension [L] of fig. 3).
Attention: The stops must be such as to ensure a draft tube travel margin of 10 mm both with closed and open gate wings.
- 3.7 When the gate is completely closed, position the head bracket [15], check that it and tail bracket are perfectly level and secure it to the gate (fig. 4).



- 3.8 Fit the piston onto head bracket by means of the pin [G] provided (fig.11). For correct operation, the geared motors must be mounted **with the motor housing at the top**.
- 3.9 Release the geared motor (see RELEASING and LOCKING Instructions) and move the gate by hand to check for smooth movement throughout. Slightly lubricate front and rear joints.
- 3.10 Fit the tube cover [12] with the plug [13] and gasket and secure it to the geared motor by means of the screw [H] and [M] provided (fig. 12). *Fit properly, making sure that the slits on the closing plug [13] are turned downwards so as to favour water drain-off.*
- 3.11 Secure the casing [10] into place by means of screw [N] paying attention to the position of the wire (fig. 12).

4. ELECTRICAL CONNECTIONS

The electrical connections and the startup of the Obbi 3BH are illustrated in fig. 13 and 14 and in the installation manuals of the control panel D2H and Logic C22/C22S.

5. MAINTENANCE PROGRAM (each 6 months)

Power off (230 V~ mains and batteries, if installed):

- Lubricate front and rear joints.
- Lubricate the gate leaf hinges.
- Check the good conditions of the electric connection.
- Check that the fixing screws of the geared motor are firmly tightened.

Power on 230 V~ mains and batteries:

- Check the power adjustment.
- Check the good operation of all command and safety functions (photocells).
- Check the good operation of the release system.

ATTENTION: For spare parts, see the spares price list.

All right reserved

All data and specifications have been drawn up and checked with the greatest care. The manufacturer cannot however take any responsibility for eventual errors, omissions or incomplete data due to technical or illustrative purposes

Attention: Lock and release operations must be performed with motor not running.


RELEASE INSTRUCTION

In case of faulty operation or power failure, unlock the electric lock, if mounted, insert the key and rotate the key anticlockwise (as indicated by the arrow on the geared motor). Manually slide the gate open.

LOCK INSTRUCTION

To relock the wings, turn the key clockwise (countersense to the direction of the arrow on the geared motor). To facilitate the operation, slightly move the gate wing.

GENERAL SAFETY PRECAUTIONS

 The following precautions are an integral and essential part of the product and must be supplied to the user. Read them carefully as they contain important indications for the safe installation, use and maintenance. These instruction must be kept and forwarded to all possible future user of the system. This product must be used only for that which it has been expressly designed. Any other use is to be considered improper and therefore dangerous. The manufacturer cannot be held responsible for possible damage caused by improper, erroneous or unreasonable use. Avoid operating in the proximity of the hinges or moving mechanical parts. Do not enter the field of action of the motorised door or gate while in motion.

Do not obstruct the motion of the motorised door or gate as this may cause a situation of danger. Do not allow children to play or stay within the field of action of the motorised door or gate. Keep remote control or any other control devices out of the reach of children, in order to avoid possible involuntary activation of the motorised door or gate.

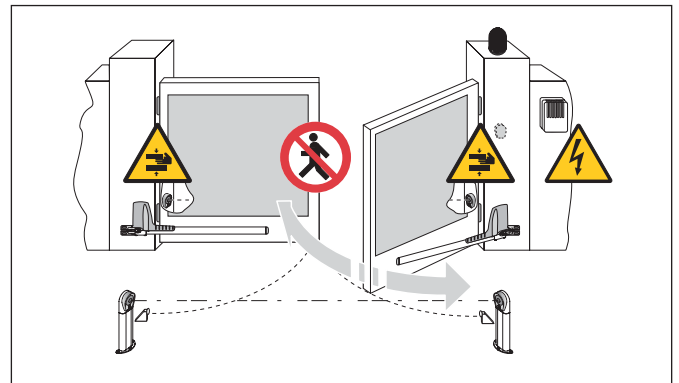
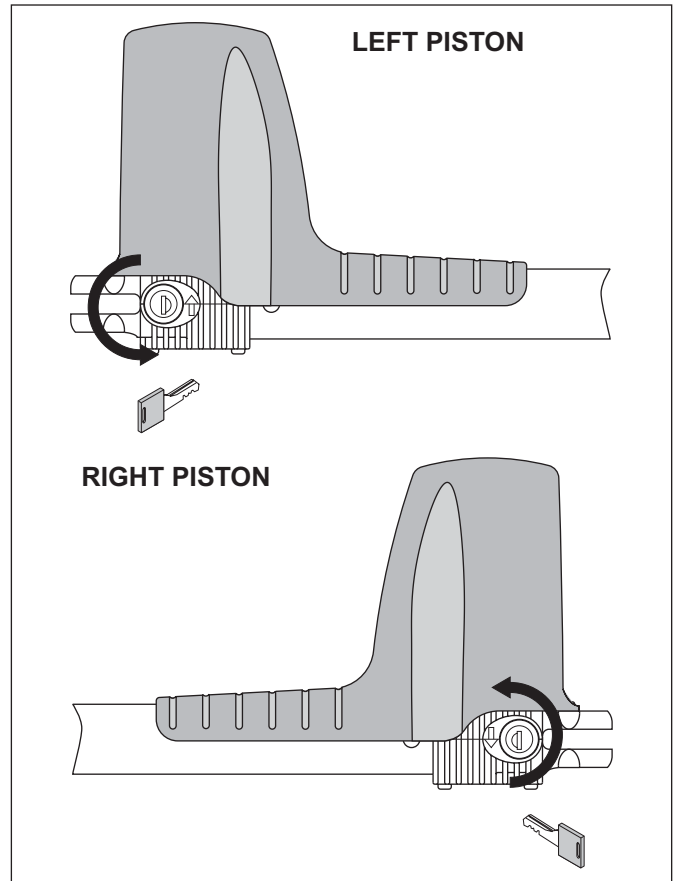
In case of break down or malfunctioning of the product, disconnect from mains, do not attempt to repair or intervene directly and contact only qualified personnel.

Failure to comply with the above may create a situation of danger.

All cleaning, maintenance or repair work must be carried out by qualified personnel.

In order to guarantee that the system works efficiently and correctly it is indispensable to comply with the manufacturer's indications thus having the periodic maintenance of the motorised door or gate carried out by qualified personnel.

In particular regular checks are recommended in order to verify that the safety devices are operating correctly. All installation, maintenance and repair work must be documented and made available to the user.



TEAR OFF AND DELIVER TO USER



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Installer:

Empty rounded rectangular box for the installer's signature.

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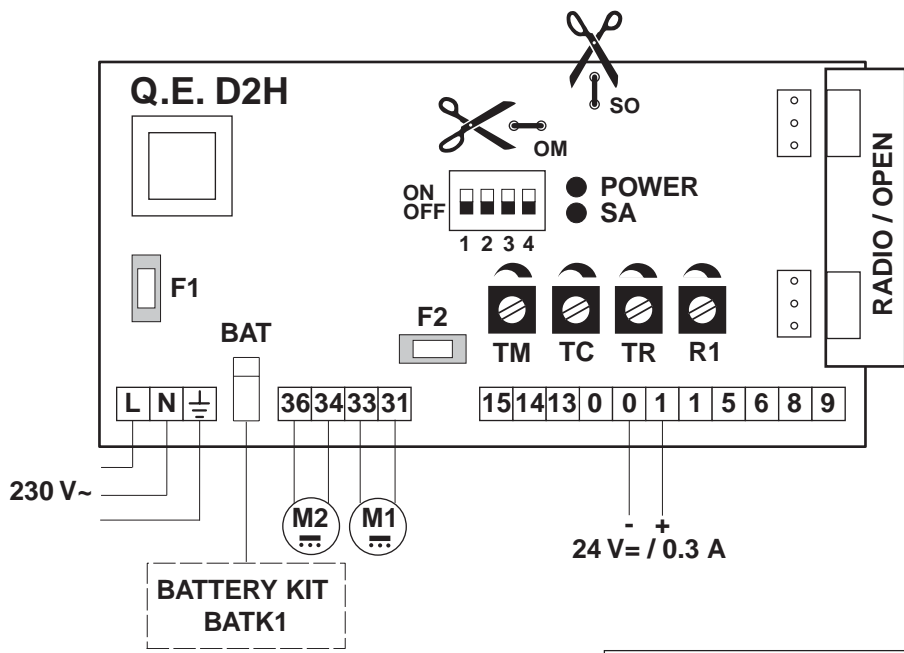




AUTOMATIC ENTRANCE SPECIALISTS

D2H

Manuale di installazione quadro elettrico per cancelli Obbi3BH a 1 o 2 motori 24 V=
 Electric board installation handbook for Obbi3BH gate with 1 or 2 motors 24 V=
 Manuel d'installation armoire électrique pour portails Obbi3BH à 1 our 2 moteurs 24 V=
 Steuerung Montagehandbuch für Drehtore Obbi3BH mit 1 oder 2 Motoren 24 V=
 Manual de instalaciòn cuadro electrico para cancelas Obbi3BH 1 o 2 motor 24 V=



F1 = F1.6 A linea / line / secteur /
 Leitung / linea
F2 = F2.5 A accessori / accessories /
 accessoires / Zubehör /
 accesorios

Fig. 1

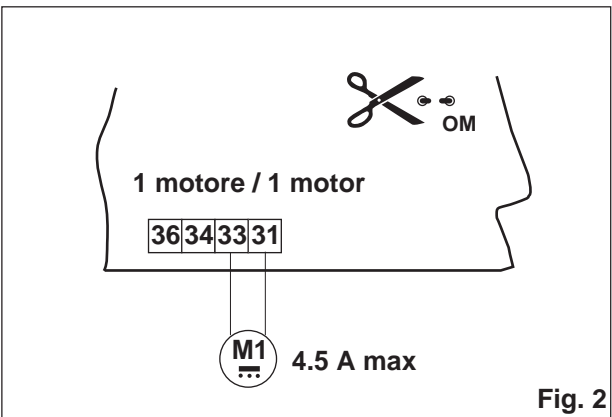


Fig. 2


IP1586 27-09-2002

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GENERAL SAFETY PRECAUTIONS


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Packaging materials (plastics, polystyrene, etc) must not be allowed to litter the environment and must be kept out of the reach of children for whom they may be a source of danger. Before beginning the installation check that the product is in perfect condition.

Do not install the product in explosive areas and atmospheres: the presence of flammable gas or fumes represents a serious threat to safety. The safety devices (photoelectric cells, mechanical obstruction sensor, emergency stop, etc) must be installed taking into account: the provisions and the directives in force, good workmanship criteria, the installation area, the functional logic of the system and the forces developed by the motorised door or gate.

 Before connecting to the mains check that the rating is correct for the destination power requirements. A multipolar isolation switch with minimum contact gaps of 3 mm must be included in the mains supply. Check that upstream of the electrical installation there is an adequate differential switch and a suitable circuit breaker.

When requested, connect the motorized door or gate to an effective earthing system carried out as indicated by current safety standards. During installation, maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts.

 The electronic parts must be handled using earthed antistatic conductive arms. The manufacturer of the motorising device declines all responsibility in cases where components which are incompatible with the safe and correct operation of the product only original spare parts must be used. For repairs or replacements of products only original spare parts must be used. The fitter must supply all information concerning the automatic, the manual and emergency operation of the motorised door or gate, and must provide the user the device with the operating instructions. It is recommended that antistatic conductive earthed arm bands be worn when manipulating electronic parts.

INSTALLATION WARNING

Secure the electric board permanently. Drill the lower side of the container so as to run the cables through it. Secure the cables, if they are accessible, by means of appropriate gland plates (not provided by us). Keep the line conductors separate (at least 8 mm.) from the control conductors and motor at the terminal board connection points (for example, by means of clamps). Re-close the container by means of the 4 screws, taking care to properly position the cover (lower side = Devoid of gasket).

TECHNICAL DATA

	D2H
Power supply	230 V~ / 50 Hz
Motor output	24 V= / 2 x 4.5 A (max)
Safety accessories power supply (nominal) (peak)	24 V= / 0.3A 24 V= / 0.5A
Temperature	-15 °C / +50 °C
Degree IP	IP54
Dimensions	180x250x100

All right reserved

All data and specifications have been drawn up and checked with the greatest care. The manufacturer cannot however take any responsibility for eventual errors, omissions or incomplete data due to technical or illustrative purposes

1. ELECTRICAL CONNECTION

WARNING: Link up all N.C. contacts (if not used) by means of jumpers.
The terminal bearing the same number are equivalent.
The given operating and performance features can only be guaranteed with the use of DITEC accessories and safety devices.

1.1 Controls



CONTROL	FUNCTION	DESCRIPTION
1 — 5 N.O.	STEP BY STEP	When DIP1 = OFF sequence: "Open-Stop-Close-Open". Warning: if the automatic closure is enabled, the stop is not permanent but lasts for the time set by means of TC. When DIP1 = ON and automatic closing is activated, contact 1-5 = "Open". When DIP1 = ON and automatic closing is deactivated, contact 1-5 executes the opposite movement of the one that was executed prior to stopping when the gate is standing still. Note: with permanent contact 1-5, the automatic closing is disabled until the contact reopens.
1 — 6 N.C.	STOPPING SAFETY CONTACT	It stops or prevents the any operation.
1 — 8 N.C.	REVERSAL SAFETY CONTACT	Reverses the direction of movement during the closing maneuver (opens the gate again). When the gate is standing still and bridge SO is closed, every movement – both opening and closing – is prevented. When the gate is standing still and bridge SO is interrupted, only the closing maneuver is prevented.
1 — 9 N.C.	STOP	With the 1-9 contact, the gate stops or stays stopped and automatic closing is disabled.
RADIO / OPEN	STEP BY STEP	It has the same function as contact 1-5.

1.2 Outputs and accessories

Output	Value	Description
1 • + 0 • -	24V = / 0.3 A (nominal) 0.5 A (peak)	Accessories power supply. Output for power external accessories including the door-open signal lamp. Electronically-protected exit.
0 • ⊗ • 14	24V = / 30 W max.	Flashing light (LAMPH). It is activated during the opening and closing movements. During an automatic closing procedure the blinking phase begins 3 s before the time set on TC expires; if TC is set to less than 3 s, the preliminary blinking phase continues throughout the entire standstill time. Protected exit with fuse F2.
0 • ⊗ • 15	24V = / 1.2 A max.	Electric lock. In connection with an electric lock having 12V the resistance of 8.2 Ohm/5 W is connected in series. It is activated at the beginning of every opening movement. When DIP 3 = ON, the release can be activated. Protected exit with fuse F2.
1 • ⊗ • 13	24V = / 3 W max.	Light „Gate open“. Activates a light that goes out only when the gate is closed.
Motor connection		When there are double-leaf gates, connect the motors according to Fig. 1. Note: Depending on the direction of opening of the leaves of the gate, the polarity of the motor may have to be reversed. When there are single-leaf gates, bridge OM has to be interrupted and the motor should be connected according to Fig. 2. Note: If it is necessary to lengthen the motor cable, use 2x1.5 mm ² up to a length of 15 m; then increase the cross-section proportionally to the distance.
BAT		This connection is provided for connecting an optional emergency battery (BATK1 , equipped with a control circuit and charging device) to ensure that the opening system functions in the event of a power failure.

1.3 Settings and adjustment

- TC Automatic closure time.** From 0 to 120 s when TC is set from 0 to 3/4 rotations. The counting begins when the gate is closed and continues throughout the entire duration of time set on TC.
When DIP2 = OFF and after response of a safety device (1-6/1-8), the counting begins after the safety device itself is released (e.g. after passing through the light barrier) and takes half as long as the time set on TC. With DIP2=ON the count begins when the gate is open and lasts for the entire length of time set on TC.
When TC is in the maximum position or contact 1-9 is open, the automatic closing procedure is deactivated. When the deactivation is executed via 1-9, the automatic closing procedure will only be activated again after contact 1-9 is closed again, **if command 1-5 is given.**
- TM Maximum operating time.** From 10 to 90 s when TM is set between minimum and maximum setting.
- TR Setting for the delay time of motor 1 during the closing procedure.** From 0 to 30 s when TR is set between minimum and maximum. During the opening procedure motor 2 (M2) always starts 3s after M1. During the closing procedure motor 1 (M1) is started after M2, with such delay being set via TR.
- R1 Obstacle detection adjustment.** The control unit must be equipped with a safety device that interrupts the opening or closing procedure when an obstacle is detected. When R1 is set to minimum, the system exhibits minimum power and maximum sensitivity with respect to obstacles. When R1 is in the maximum setting, the system exhibits maximum power and minimum sensitivity with respect to obstacles.

	OFF / 	ON / 
DIP1	Command 1-5 functioning = step by step	Command 1-5 functioning = opens
DIP2	Resetting the automatic closing time = 50%	Resetting the automatic closing time = 100%
DIP3	Electric lock release = disabled	Electric lock release = abled
DIP4 (*)	Condition of the gate when the motor is switched on = gate open: the first command 1-5 executes a closing procedure. (Note: When DIP1 = ON and TC is not set to the maximum setting, the first command executes only the automatic closing procedure).	Condition of the gate when the motor is switched on = gate closed: the first command 1-5 executes an opening procedure. (Note: The automatic closing procedure may not be the first command, even if it is activated).
SO	Safety device 1-8 functioning: opening contact 1-8 prevents any kind of maneuver when the gate is standing still.	Safety device 1-8 functioning: opening contact 1-8 permits an opening procedure via command 1-5 when the gate is standing still.
OM	Number of leaves: Gate with two leaves.	Number of leaves: Gate with one leaf.

(*) DIP4 indicates the condition, in which the control unit considers the gate to be when the motor is switched on (or when the power supply is restored after a power failure) irrespective of the actual position of the leaves of the gate.

LED POWER. When this LED lights up, it means that the control unit is being supplied with power.

LED SA. When this LED lights up, it means that at least one of the contacts 1-6, 1-8 (safety devices) or 1-9 (Stop) is open.

2. START



CAUTION: The movements described in 2.4 are executed without any safety devices. The trimmers can only be adjusted when the gate is standing still.

- 2.1 Close the leaves of the gate manually.
- 2.2 In case of a single-leaf gate, interrupt bridge OM.
- 2.3 Set TC and R1 to the maximum settings. Bypass safety devices and stop.
- 2.4 Switch on the power supply. (Note: Depending on the direction of opening of the leaves, the polarity of the motor may have to be reversed.). When the opening maneuver is defined by a limit stop, trimmer TM should be set in such a way that the time of the moving procedure takes 2-3 s longer than the time required for the gate to be opened completely. When the opening maneuver is not defined by a limit stop, trimmer TM should be set in such a way that the desired distance of opening is reached. Set trimmer TR in such a way that the leaves of the gate close again by folding over one another correctly (also when the direction is reversed). Check that the gate is functioning correctly by means of consecutive step commands (Open-Stop-Close).
- 2.5 Interrupt bridges, connect the contacts, safety devices (1-6 and 1-8) as well as the stop (1-9) and check whether everything is functioning correctly.
- 2.6 If necessary, set the automatic closing procedure via trimmer TC. **Attention:** The time for the automatic closing procedure after the safety device has responded depends on the setting selected for DIP2.
- 2.7 Set the sensitivity of the obstacle recognition by means of R1.
- 2.8 Connect any accessories, if applicable, and check whether they function correctly.
- 2.9 Re-close the container by means of the 4 screws, taking care to properly position the cover (lower side = Devoid of gasket).