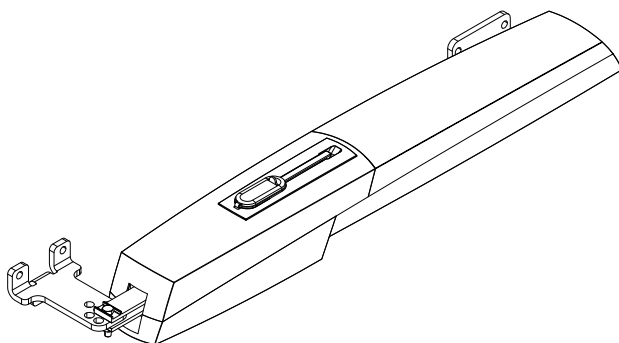


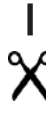


Gear motor for swing gates OPP series

FA01086-EN

**OPP001****INSTALLATION OPERATION AND MAINTENANCE MANUAL**

EN English



===== Hand these instructions to the end user =====

MANUALLY RELEASING THE GEAR MOTOR

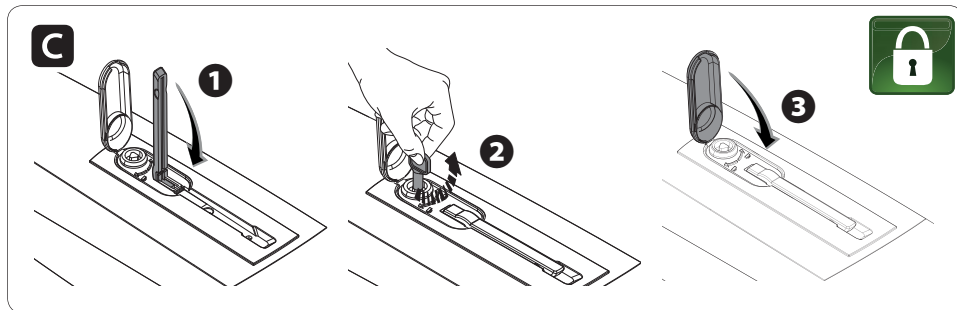
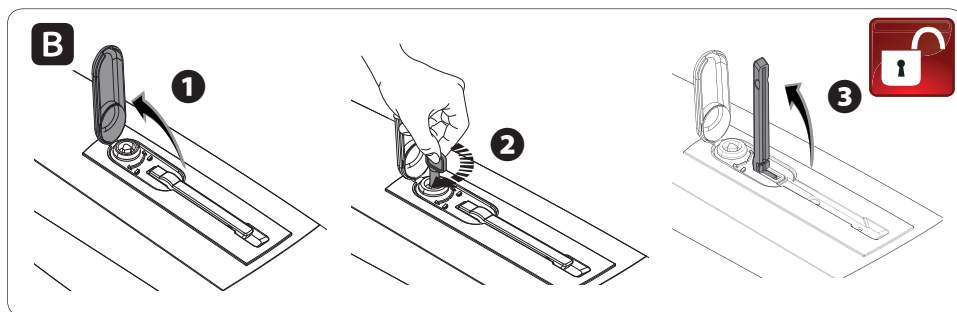
⚠ Manually releasing the gate may cause an uncontrolled movement of the gate due to possible mechanical anomalies or unbalancing.

RELEASE (figure B)

- Open the hatch, fit the trilobe key and turn it
- Take out the release tab.

LOCKING (figure C)

Pull the tab down, turn the key clockwise to return it to its position and close the hatch.



WHAT TO DO IF ...

ISSUES	POSSIBLE CAUSES	POSSIBLE FIXES
It neither opens nor closes	• Power supply is missing • The gear motor is stuck • The transmitter is emitting a weak signal or no signal at all • Control buttons or selectors stuck	• Check main power supply • Lock the gearmotor • Replace the batteries • Check integrity of devices and/ or of electrical cables
The gate opens but does not close	• The photocells are working	• Check that there are no obstructions in the photocells' area of operation

⚠ If the problem cannot be solved by following the fixes in the table or if any malfunctions, anomalies, noises, vibrations or suspicious and unexpected behavior is experienced on the system, call for qualified assistance.

Fabbrikante / Manufacturer / Hersteller / Fabricant / Fabricante / Fabricante
/ Wytwórca / Fabrikant

Came S.p.a.

Indirizzo / address / adresse / dirección / endereço / adres / adres

Via Martiri della Libertà 15 31030 - Dossón di Casier Treviso - Italy

CAME
safety & comfort

DICHIARA CHE IL MOTORIDUTTORE PER CANCELLI A BATTENTE / DECLARES THAT THE GEAR MOTOR FOR SWING GATE / ERKLÄRT DASS DIE TORÖFFNER FÜR FLÜGELTÖRE / DECLARE QUE LE MOTORÉDUCTEUR POUR PORTAILS À BATTANTS / DECLARA QUE LAS MOTORREDUCTOR PARA PUERTAS BATIENTES / DECLARA QUE AS MOTORREDUTOR PARA PORTÕES A BATENTE / OŚWIADCZA ŻE SIŁOWNIK DO BRAM SKRZYŹLOWYCH / VERKLAART DAT DE MOTOR VOOR DRAAIHEKKEN

OPP001

E' CONFORME ALLE DISPOSIZIONI DELLE SEGUENTI DIRETTIVE / IT COMPLIES WITH THE PROVISIONS OF THE FOLLOWING DIRECTIVES / DEN VORGABEN DER FOLGENDEN RICHTLINIEN ENTSPRECHEN / IL EST CONFORMES AUX DISPOSITIONS DES DIRECTIVES SUIVANTES / CUMPLEN CON LAS DISPOSICIONES DE LAS SIGUIENTES DIRECTIVAS / ESTÃO DE ACORDO COM AS DISPOSICÕES DAS SEGUENTES DIRECTIVAS / SA ZGODNIE Z POSTANOWIENIAMI NASTĘPUJĄCYCH DYREKTYW EUROPEJSKICH / VOLDÖEN AAN DE VOORSCHRIFTEN VAN DE VOLGENDE RICHTLIJNEN:

- COMPATIBILITÀ ELETTROMAGNETICA / ELECTROMAGNETIC COMPATIBILITY / ELEKTROMAGNETISCHE VERTRÄGLICHKEIT / COMPATIBILITÉ ELECTROMAGNETIQUE / COMPATIBILIDADE ELETROMAGNETICA / KOMPATYBILNOŚCI ELEKTROMAGNETYCZNEJ / ELEKTROMAGNETISCHE COMPATIBILITEIT : 2014/30/EU.

Riferimento norme armonizzate ed altre norme tecniche / Refer to European regulations and other technical regulations / Harmonisierte Bezugsnormen und andere technische Vorgaben / Référence aux normes harmonisées et aux autres normes techniques / Referencia normas armonizadas y otras normas técnicas / Referência de normas harmonizadas e outras normas técnicas / Odnozne normy ujednoliczone i inne normy techniczne / Geharmoniseerde en andere technische normen waarnaar is verwezen

EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011
EN 61000-6-4:2007+A11:2011

RISPETTA I REQUISITI ESSENZIALI APPLICATI / MEET THE APPLICABLE ESSENTIAL REQUIREMENTS / DEN WESSENTLIEN ANGEWANDTEN ANFORDERUNGEN ENTSPRECHEN / RESPECTENT LES CONDITIONS REQUIS NÉCESSAIRES APPLIQUÉES / CUMPLEN CON LOS REQUISITOS ESSENCIALES APLICADOS / RESPETAM O REQUISITOS ESSENCIAIS APLICADOS / SPECYJALIA PODSTAWOWE WYMAGANIA WYRUKNI / VOLDÖEN AAN DE TOEPASBARE MINIMUM EISEN:

1.1.3; 1.1.5; 1.2.1; 1.2.2; 1.3.2; 1.3.7; 1.3.8.1; 1.4.1; 1.4.2; 1.5.1; 1.5.6; 1.5.8; 1.5.9; 1.5.9; 1.5.13; 1.6.1; 1.6.3; 1.6.4;
1.7.1; 1.7.2; 1.7.4

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La documentazione tecnica pertinente è stata compilata in conformità all'allegato VIB. / The pertinent technical documentation has been drawn up in compliance with attached document VIB. / Die relevante technische Dokumentation wurde entsprechend der Anlage VIB ausgestellt. / La documentation technique spécifique a été remplie conformément à l'annexe VIB / La documentación técnica pertinente ha sido redactada en cumplimiento con el anexo VIB. / A documentação técnica pertinente foi preenchida de acordo com o anexo VIB. / Odnosna dokumentacja techniczna została zredagowana zgodnie z załącznikiem VIB. / De technische documentatie tekste is opgesteld in overeenstemming met de bijlage VIB.

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VIETA / FORBIDS / VERBIETET / INTERDIT / PROHIBE / PROIBE / ZABRANIA SIE / VERBODT

la messa in servizio finché la macchina finale in cui deve essere incorporata non è stata dichiarata conforme, se del caso alla 2006/42/CE / commissioning of the above mentioned until such moment when the final machine into which they must be incorporated, has been declared compliant, if pertinent, to 2006/42/CE / die Inbetriebnahme bevor die „Endmaschine“ in die die umsatzfähige Maschine eingebaut wird, als konform erklärt wurde, gegebenenfalls gemäß der Richtlinie 2006/42/EU. / la mise en service tant que la machine finale dans laquelle elle doit être incorporée n'a pas été déclarée conforme, le cas échéant, à la norme 2006/42/CE. / la puesta en servicio hasta que la máquina final en la que será incorporada no haya sido declarada de conformidad de acuerdo a la 2006/42/CE / a colocação em funcionamento, até que a máquina final, onde devem ser incorporadas, não for declarada em conformidade, se de acordo com a 2006/42/CE. / Uruchomienie urządzenia do czasu, kiedy maszynę, do której ma być wbudowany, nie zostanie oznaczona jako zgodna z wymogami dyrektywy 2006/42/WE, jeśli taka procedura była konieczna. / doze in werking te stellen zolang de eindmachine waarin de niet voltooide machine moet worden ingebouwd in overeenstemming is verklaard, indien toepasselijk met de richtlijn 2006/42/EG.

Dossón di Casier (TV)
28 Giugno / June / Juni / Juin / Junho
/ Junho / Czerwcu / Juni 2016

Amministratore Delegato / Managing Director /
General Direktor / Directeur Général / Director General /
Administrador Delegado / Dyrektor Zarządzający /
Algemeen Directeur

Andrea Menuzzo

Fascicolo tecnico a supporto / Supporting technical dossier / Unterstützung technische Dossier / soutien dossier technique / apoyo expediente técnico / apolar dossier técnico / wspieranie dokumentacji technicznej / ondersteunende technische dossier: 001OPP001

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Cap. Soc. 1.610.000,00 € - C.F. e P.I. 03481280265 - VAT IT 03481280265 - REA TV 275359 - Reg Imp. TV 03481280265

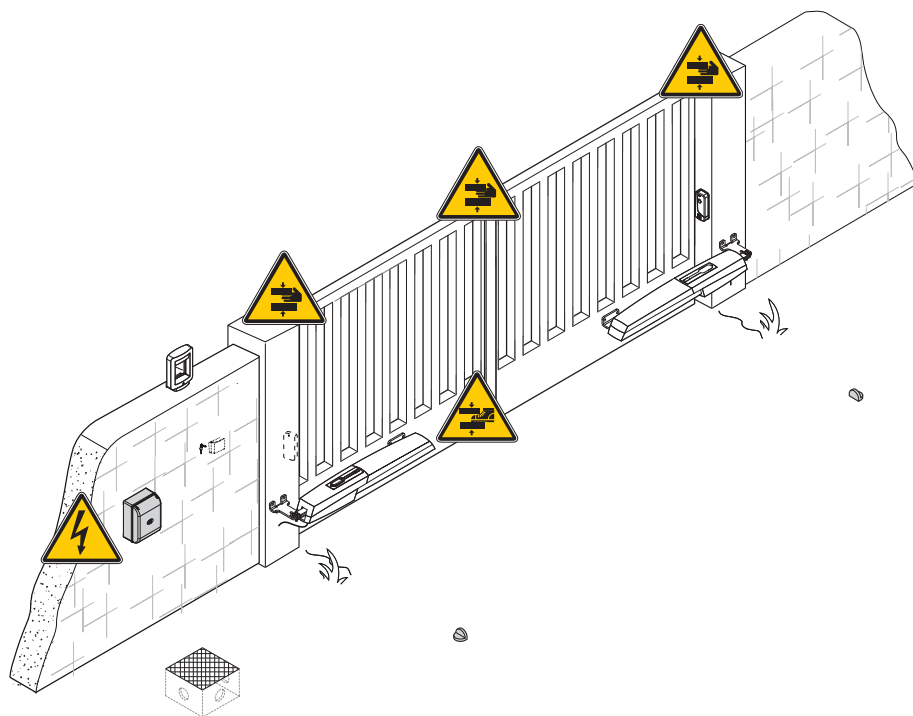
WARNING! Important safety instructions.

Follow all of these instructions. Improper installation can cause serious bodily harm.

Before continuing, also read the general precautions for users.

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- THE NEXT FIGURE SHOWS THE MAIN HAZARD POINTS FOR PEOPLE -



Danger of high voltage



Danger of foot crushing



Danger of hand entrapment

KEY

-  This symbol shows which parts to read carefully.
-  This symbol shows which parts describe safety issues
-  This symbol shows which parts to tell users about.

The measurements, unless otherwise stated, are in millimeters.

DESCRIPTION

Irreversible gearmotor with decoder for swing gates with leaves up to 2.2 m long.
Aluminium and ABS cover, worm screw based reduction system, crown and conical torque.

INTENDED USE

This gearmotor is designed to power and operate swing gates in private homes and apartment blocks.

 Any installation other than what is detailed in this manual is prohibited.

LIMITS TO USE

Type	OPP001		
Maximum gate-leaf length (m)	1	1.7	2.2
Maximum gate-leaf weight (kg)	250	225	200

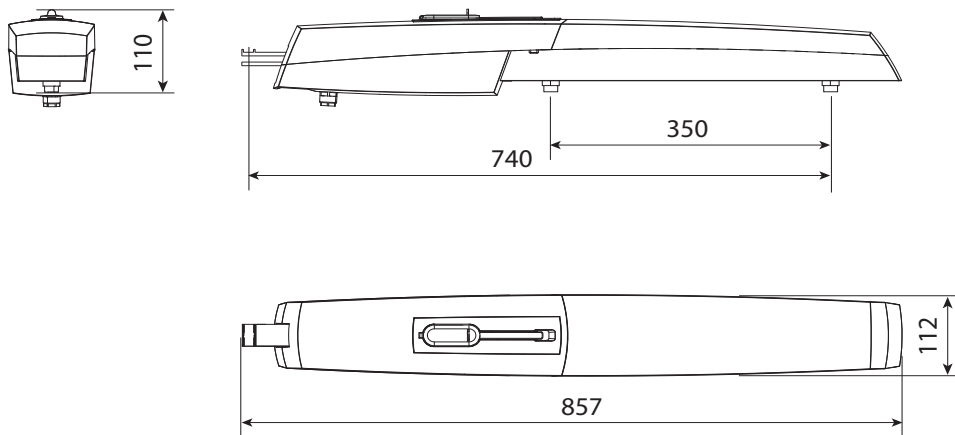
TECHNICAL DATA

Type	OPP001
Protection rating (IP)	44
Control panel power supply (V - 50/60 Hz)	230 AC
Input voltage motor (V)	24 DC
Max draw (A)	5
Maximum power (W)	120
Duty cycle (%)	50
Opening time at 90° (s)	15*
Operating temperature (°C)	-20 to +55
Apparatus class	3
Reduction ration (i)	1/36
Thrust (N)	400 ÷ 2000
Weight (Kg)	6.1**

* Smallest reference value with fastest travel and slowest slow-down speeds. The weight and type of door, the gate's state of wear-and-tear and the geography can all vary the value.

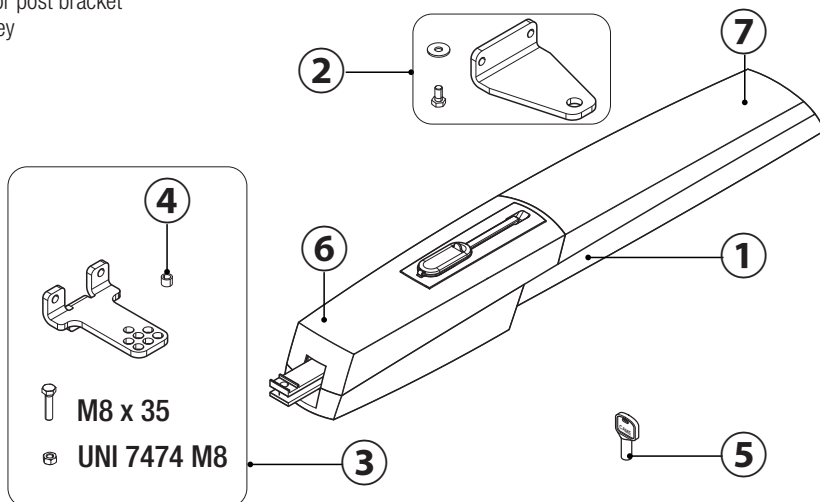
** The weight of the motor includes the brackets. The motor alone weigh 4.6 kg.

DIMENSIONS (MM)



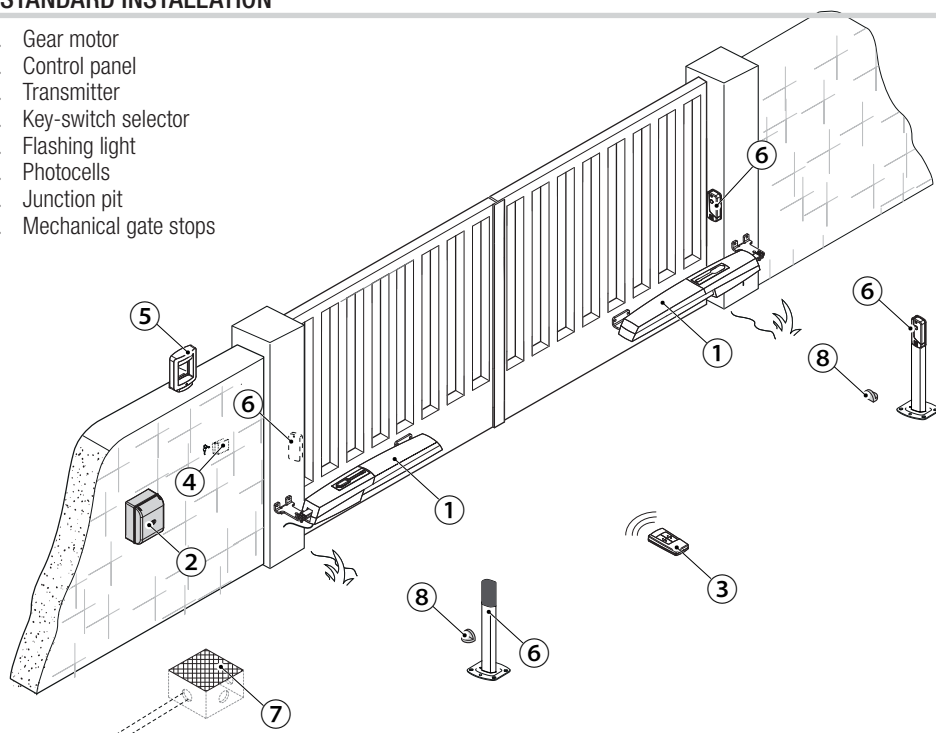
DESCRIPTION OF PARTS

1. Gear motor
2. Gate bracket and fastening screw
3. Post bracket and fastening screw
4. Bushing for post bracket
5. Locking key
6. Cover 1
7. Cover 2



STANDARD INSTALLATION

1. Gear motor
2. Control panel
3. Transmitter
4. Key-switch selector
5. Flashing light
6. Photocells
7. Junction pit
8. Mechanical gate stops



GENERAL INSTALLATION INDICATIONS

△ Only skilled, qualified staff must install this product.

PRELIMINARY CHECKS

△ Before beginning the installation, do the following:

- make sure there is an opening and closing mechanical gate stops;
- make sure that the point where the gearmotor is fastened is protected from any impacts and that the surface is solid enough;
- set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage.

CABLE TYPES AND MINIMUM SECTIONS

Connection	cable length	
	< 20 m	20 < 30 m
Input voltage for 230 V AC control board (1P+N+PE)	3G x 1.5 mm ²	3G x 2.5 mm ²
Signaling devices	2 x 0.5 mm ²	
Command and control devices	2 x 0.5 mm ²	
Safety devices (photocells)	(TX = 2 x 0.5 mm ²)	
	(RX = 2 x 0.5 mm ²)	

📖 When operating at 230 V and outdoors, use H05RN-F-type cables that are 60245 IEC 57 (IEC) compliant; whereas indoors, use H05VV-F-type cables that are 60227 IEC 53 (IEC) compliant. For power supplies up to 48 V, you can use FROR 20-22 II-type cables that comply with EN 50267-2-1 (CEI).

📖 To connect the antenna, use the RG58 (we suggest up to 5 m).

📖 For paired connection and CRP, use a UTP CAT5-type cable (up to 1,000 m long).

📖 If cable lengths differ from those specified in the table, establish the cable sections depending on the actual power draw of the connected devices and according to the provisions of regulation CEI EN 60204-1.

📖 For multiple, sequential loads along the same line, the dimensions on the table need to be recalculated according to the actual power draw and distances. For connecting products that are not contemplated in this manual, see the literature accompanying said products

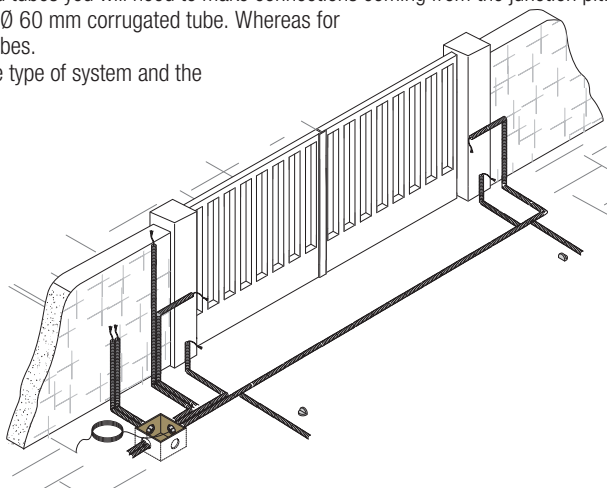
INSTALLATION

 The following illustrations are mere examples in that the space for anchoring the operator and accessories varies depending on the installation area. It is up to the installer to find the most suitable solution.

CORRUGATED TUBE LAYING

Set up the junction boxes and corrugated tubes you will need to make connections coming from the junction pit. To connect the gearmotor we suggest a $\varnothing 60$ mm corrugated tube. Whereas for the accessories we suggest $\varnothing 25$ mm tubes.

 The number of tubes depends on the type of system and the accessories you are going to fit.



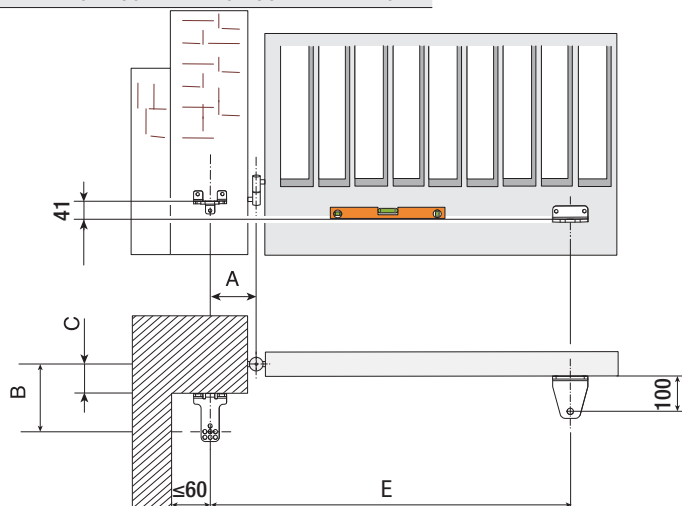
FASTENING THE BRACES

Establish the gate bracket fastening point and find the bracket's fastening point to the post, while respecting the quotas shown in the drawings and tables.

Opening (°)	A	B	C (mm)	E
90	130	110 - 170	0 - 60	740
115	150	110 - 160	0 - 50	740

△ The greater the gate leaf's opening angle, the greater the opening speed and the slower is the gearmotor's thrust.

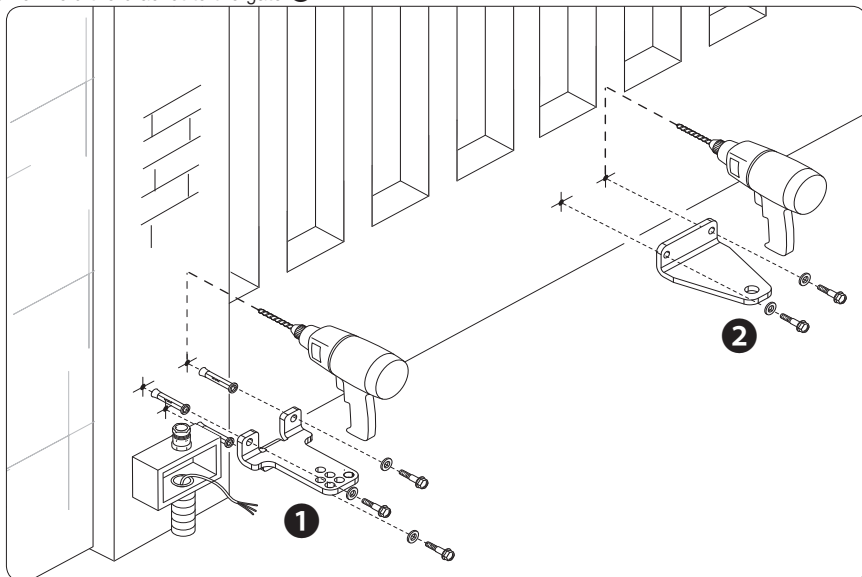
The smaller the gate leaf's opening angle, the slower the opening speed and the greater is the gearmotor's thrust.



Fasten the bracket to the post **1** using suitable anchors and screws. If the post is made of metal, the bracket can be welded to it.

Note: the holes on the bracket are for further opening angle variations of the gate leaf.

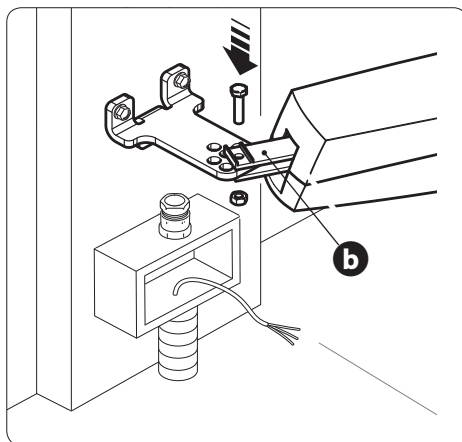
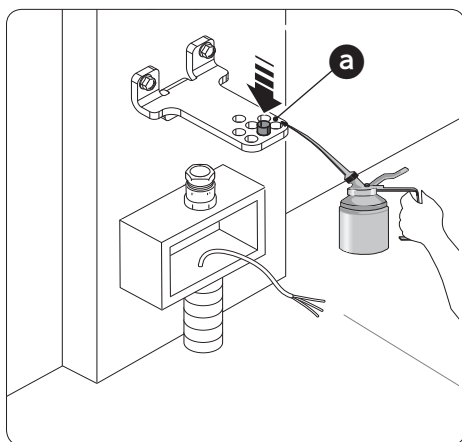
Fasten or weld the bracket to the gate **2**.



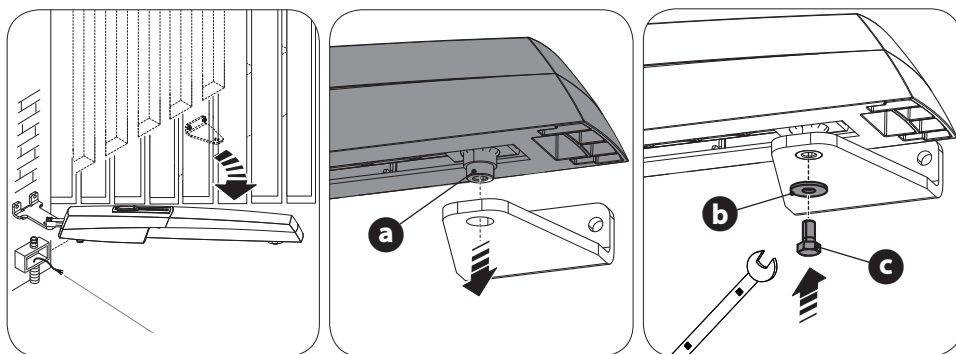
FASTENING THE GEARMOTOR

Lubricate the bushing **a** and fit it into one of the holes on the post bracket.

Fasten the joint to the post bracket **b** using the M8 x 35 bolt and UNI 7474 M8 nut.

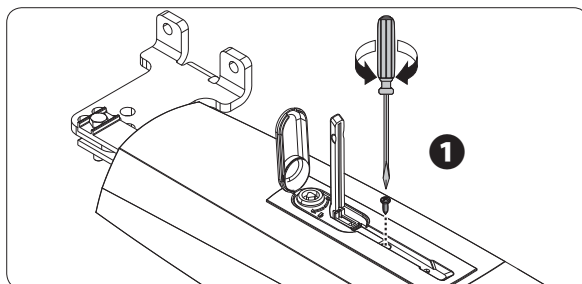


Open the gate leaf (the grub screws on the mechanical stops are loose) and fit the pin **a** into the gate bracket. Fasten using the UNI6593 washer Ø 10 and the supplied UNI 5739 M10 X 10 bolt **b** **c**.

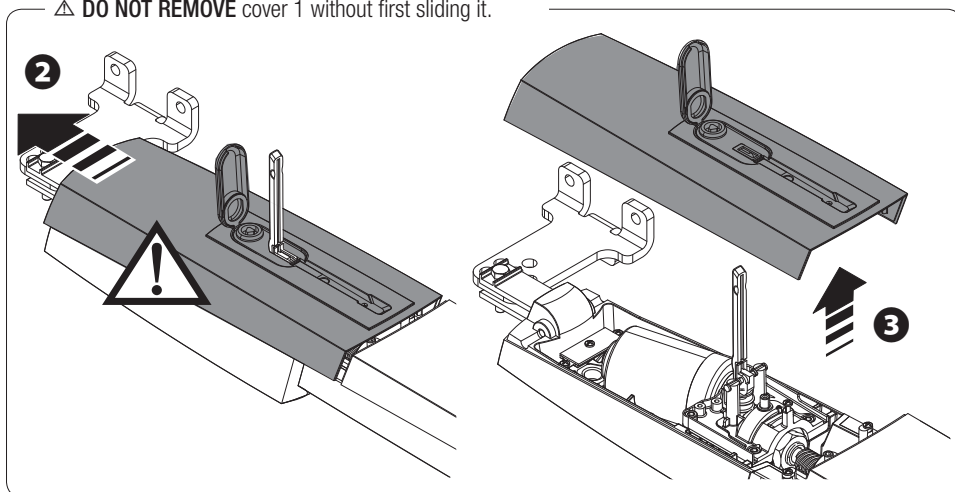


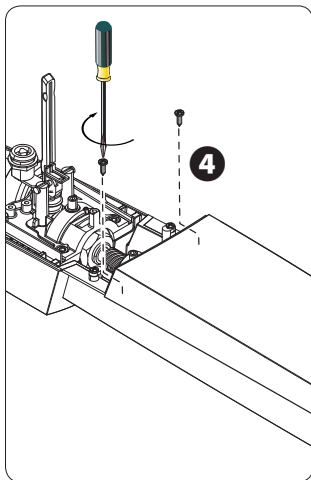
ESTABLISHING THE LIMIT-SWITCH POINTS

Before establishing the endstop points, you need to: release the gearmotor (see paragraph on manually releasing it) and remove covers 1 and 2 while carefully following the illustrations.

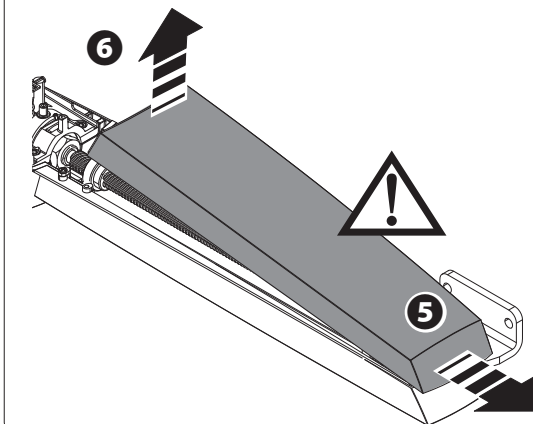


⚠ **DO NOT REMOVE** cover 1 without first sliding it.





⚠ **DO NOT REMOVE** cover 2 without first sliding it.

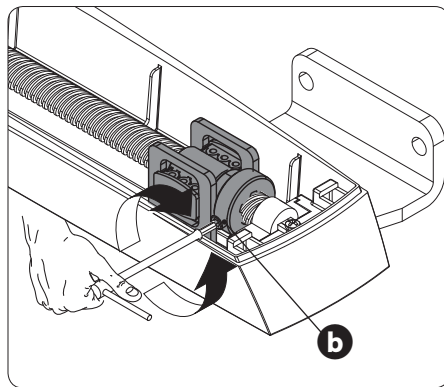
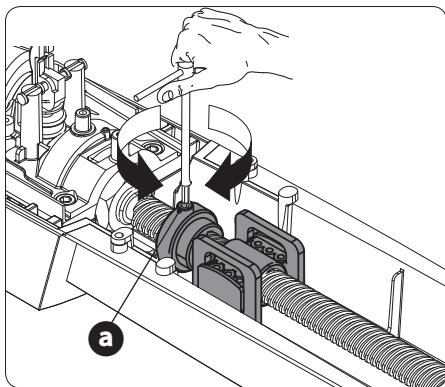


For opening

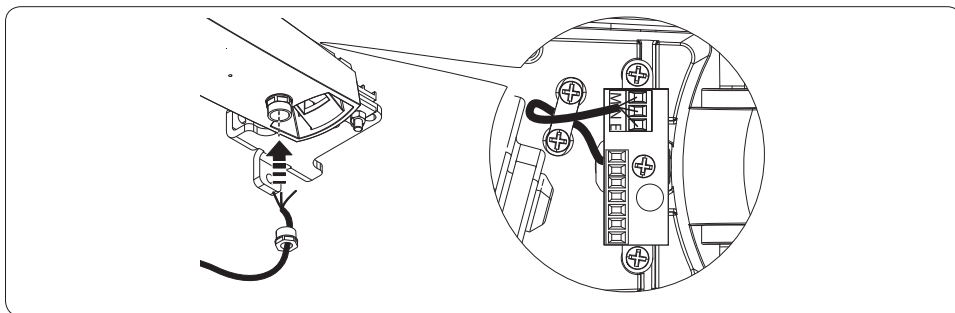
Reach the gate leaf opening point you want and take the mechanical stop to rest using the slide guide. Fasten the closing mechanical stop's grub screws **a**.

For closing

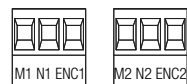
Close the gate leaf completely and rest it against the mechanical stop using the slide guide. Fasten the closing mechanical stop's grub screws **b**.



CONNECTIONS TO THE CONTROL PANEL



CONNECTING TWO GEARMOTORS



Gearmotor with encoder **(M2)** 24 V DC, delayed when **closing**.

Gearmotor with encoder **(M1)** 24 V DC, delayed when **opening**.

CONNECTING ONE GEARMOTOR



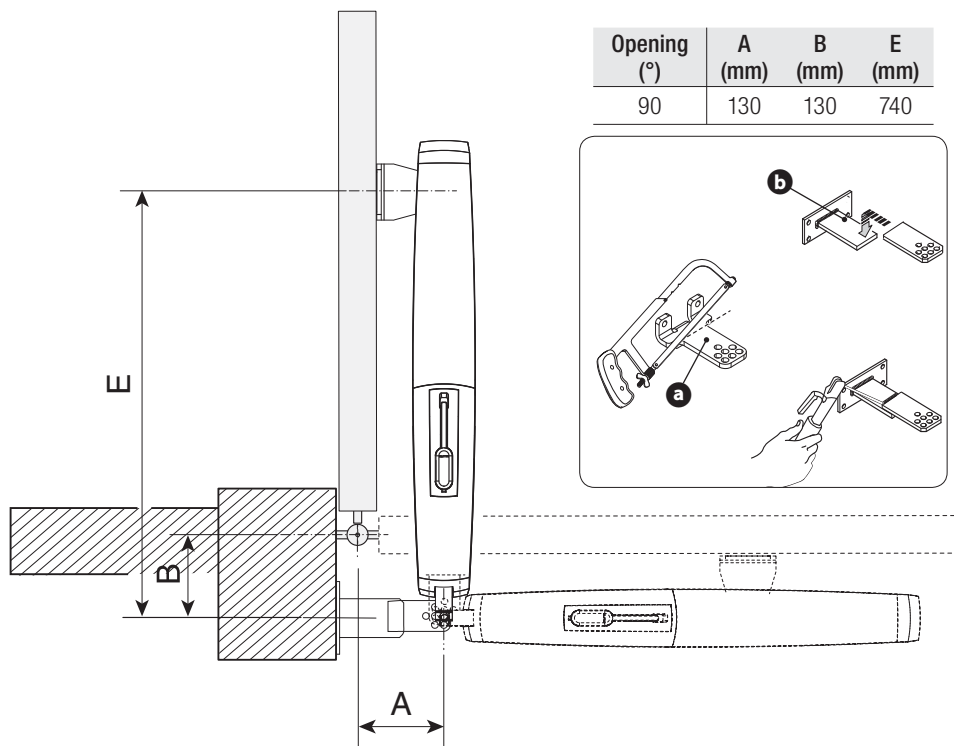
Gearmotor with encoder **(M2)** 24 V DC

CONNECTION FOR OPENING OUTWARDS

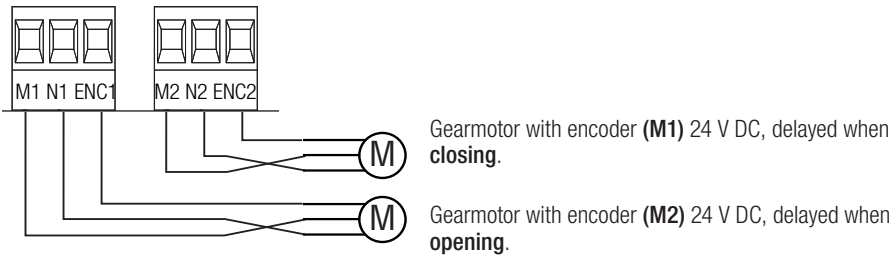
△ Establish the quotas **A** and **B**.

Cut and fasten post bracket **a** by supplementing it with an additional bracket **b** (not issued).

Open the gate (max 90°), establish the quota **E** and establish the gate bracket fastening point. Fasten the bracket.



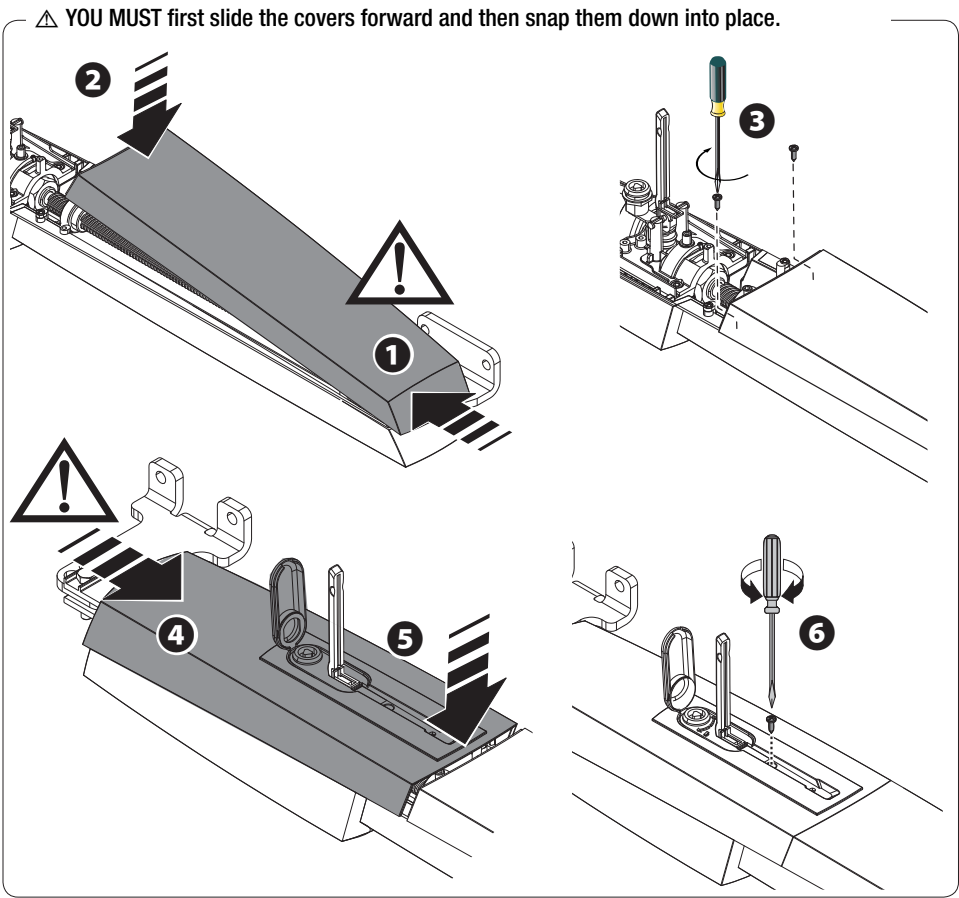
Make the necessary electrical connections as shown in the figure.



FINAL OPERATIONS

FASTENING THE COVERS

Once you have completed all electrical connections and commissioning, fit the covers as shown here



DISMANTLING AND DISPOSAL

👉 CAME CANCELLI AUTOMATICI S.p.A. applies a certified Environmental Management System at its premises, which is compliant with the UNI EN ISO 14001 standard to ensure the environment is safeguarded. Please continue safeguarding the environment. At CAME we consider it one of the fundamentals of our operating and market strategies. Simply follow these brief disposal guidelines:

♻️ DISPOSING OF THE PACKAGING

The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling.

Always make sure you comply with local laws before dismantling and disposing of the product.

DISPOSE OF RESPONSIBLY!

♻️ DISMANTLING AND DISPOSAL

Our products are made of various materials. Most of these (aluminum, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants.

Whereas other components (control boards, batteries, transmitters, and so on) may contain hazardous pollutants.

These must therefore be disposed of by authorized, certified professional services.

Before disposing, it is always advisable to check with the specific laws that apply in your area.

DISPOSE OF RESPONSIBLY!

The contents of this manual may change, at any time, and without notice.

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