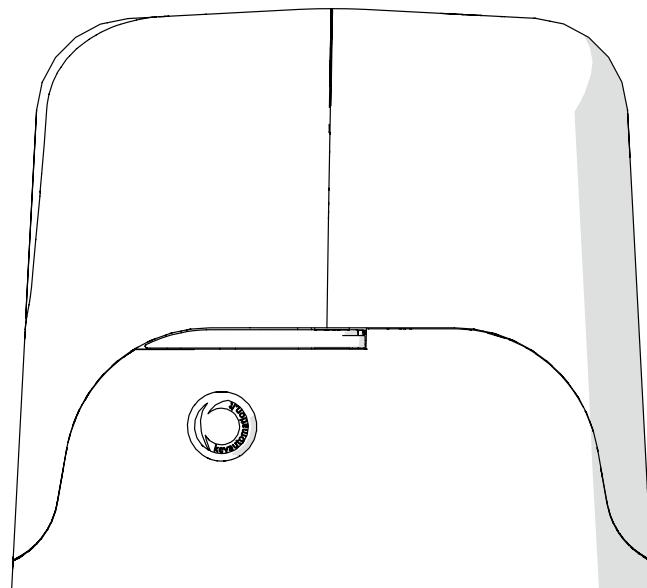




Istruzioni ed avvertenze per l'installazione e l'uso  
Instructions and warnings for installation and use  
Instructions et avertissements pour l'installation et l'usage  
Instrucciones y advertencias para su instalación y uso  
Anleitungen und Hinweise zu Installation und Einsatz  
Instruções e advertências para a instalação e utilização  
Instrukcje i zalecenia dotyczące instalacji i użytkowania



# SUN

Motoriduttori per cancelli scorrevoli

Gear-motor for sliding gates

Motoreducteur pour coulissants

Motorreductores para puertas correderas

Getriebe für Schiebetore

Motorredutores para portões de correr

Napęd silnikowy do bram przesuwnych



Management  
System  
ISO 9001

[www.tuv.com](http://www.tuv.com)  
ID 9105043769

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## 1 - SAFETY WARNINGS

### **⚠ ATTENTION !**

**ORIGINAL INSTRUCTIONS - important safety instructions.** Follow the instructions since incorrect installation can lead to severe injury! Save these instructions.

Read the instructions carefully before proceeding with installation.

**The design and manufacture of the devices making up the product and the information in this manual are compliant with current safety standards. However, incorrect installation or programming may cause serious injury to those working on or using the system. Compliance with the instructions provided here when installing the product is therefore extremely important.**

If in any doubt regarding installation, do not proceed and contact the Key Automation Technical Service for clarifications.

**Under European legislation, an automatic door or gate system must comply with the standards envisaged in the Directive 2006/42/EC (Machinery Directive) and in particular standards EN 12445; EN 12453; EN 12635 and EN 13241-1, which enable declaration of presumed conformity of the automation system.**

Therefore, final connection of the automation system to the electrical mains, system testing, commissioning and routine maintenance must be performed by skilled, qualified personnel, in observance of the instructions in the "Testing and commissioning the automation system" section.

The aforesaid personnel are also responsible for the tests required to verify the solutions adopted according to the risks present, and for ensuring observance of all legal provisions, standards and regulations, with particular reference to all requirements of the EN 12445 standard which establishes the test methods for testing door and gate automation systems.

### **⚠ ATTENTION !**

**Before starting installation, perform the following checks and assessments:**

ensure that every device used to set up the automation system is suited to the intended system overall. For this purpose, pay special attention to the data provided in the "Technical specifications" section. Do not proceed with installation if any one of these devices is not suitable for its intended purpose;

check that the devices purchased are sufficient to guarantee system safety and functionality;

perform a risk assessment, including a list of the essential safety requirements as envisaged in Annex I of the Machinery Directive, specifying the solutions adopted. The risk assessment is one of the documents included in the automation system's technical file. This must be compiled by a professional installer.

**Considering the risk situations that may arise during installation phases and use of the product, the automation system must be installed in compliance with the following safety precautions:**

never make modifications to any part of the automation system other than those specified in this manual. Operations of this type can only lead to malfunctions. The manufacturer declines all liability for damage caused by unauthorised modifications to products;

if the power cable is damaged, it must be replaced by the manufacturer or its after-sales service, or in all cases by a person with similar qualifications, to prevent all risks;

do not allow parts of the automation system to be immersed in water or other liquids. During installation ensure that no liquids are able to enter the various devices;

should this occur, disconnect the power supply immediately and contact a Key Automation Service Centre. Use of the automation system in these conditions may cause hazards;

never place automation system components near to sources of heat or expose them to naked lights. This may damage system components and cause malfunctions, fire or hazards;

### **⚠ ATTENTION !**

**The drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts. If the disconnect device is not in a visible location, affix a notice stating: "MAINTENANCE IN PROGRESS":**

connect all devices to an electric power line equipped with an earthing system;

the product cannot be considered to provide effective protection against intrusion. If effective protection is required, the automation system must be combined with other devices;

the product may not be used until the automation system "commissioning" procedure has been performed as specified in the "Automation system testing and commissioning" section;

the system power supply line must include a circuit breaker device with a contact gap allowing complete disconnection in the conditions specified by class III overvoltage;

use unions with IP55 or higher protection when connecting hoses, pipes or cable glands;

the electrical system upstream of the automation system must comply with the relevant regulations and be constructed to good workmanship standards;

this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved;

before starting the automation system, ensure that there is no-one in the immediate vicinity;

before proceeding with any cleaning or maintenance work on the automation system, disconnect it from the electrical mains;

special care must be taken to avoid crushing between the part operated by the automation system and any fixed parts around it; children must be supervised to ensure that they do not play with the equipment.

that the drive cannot be used with a driven part incorporating a wicket door unless the drive can only be operated with the wicket door in the safe position;

### **⚠ ATTENTION !**

**Frequently examine the installation for imbalance where applicable and signs of wear or damage to cables, springs and mounting.**

**Do not use if repair or adjustment is necessary.**

### **⚠ ATTENTION !**

**The automation system component packaging material must be disposed of in full observance of current local waste disposal legislation.**

**KEY AUTOMATION reserves the right to amend these instructions if necessary; they and/or any more recent versions are available at [www.keyautomation.it](http://www.keyautomation.it)**

## 2 - INTRODUCING THE PRODUCT

### 2.1 - Description of the product

The gear motor SUN is intended to be installed within systems for the automation of sliding gates. The SUN gear motors have been designed to automate sliding gates within the weight limits indicated

in the technical specifications table.

The use of gear motors for applications which differ from those indicated above is prohibited.

### 2.2 - Model and technical characteristics

Code	Description
SUN4024	24 Vdc gear motor with mechanical limit switches, gate maximum weight 400 kg
SUN4224	24 Vdc gear motor with mechanical limit switches, gate maximum weight 400 Kg
SUN7024/SUN7024M*	24 Vdc gear motor with mechanical limit switches, gate maximum weight 700 Kg
SUN7224	24 Vdc gear motor with mechanical limit switches, gate maximum weight 700 Kg
SUN11024/SUN11024M*	24 Vdc gear motor with mechanical limit switches, gate maximum weight 1100 Kg
SUN52	230 Vac gear motor with mechanical limit switches, gate maximum weight 500 Kg
SUN82	230 Vac gear motor with mechanical limit switches, gate maximum weight 800 Kg
SUN122	230 Vac gear motor with mechanical limit switches, gate maximum weight 1200 Kg
SUN5024F	24 Vac gear motor with magnetic limit switches, gate maximum weight 500 Kg

\* magnetic limit switches

### TECHNICAL DATA

MODELS	SUN4024	SUN4224	SUN7024/ SUN7024M	SUN7224	SUN11024/ SUN11024M	SUN52	SUN82	SUN122	SUN5024F
TECHNICAL SPEC.									
Speed	cm/s	21	21	25	25	20	16	16	40
Torque	Nm	12	12	26	26	38	16	23	23
Working cycle	%	50	50	80	80	80	30	30	80
Control unit		14A	CT10224	14A	CT10224	14A	CT102B	CT102B	CT102B
Power supply	Vac (Vdc)	230(24)	230(24)	230(24)	230(24)	230	230	230	230(24)
Absorption	A	1,1	1,1	1,5	1,5	1,3	1,3	1,9	2,6
Engine power	W	250	250	345	345	300	300	450	600
Capacitor	μF	-	-	-	-	12,5	16	20	-
Thermoprotection	°C	-	-	-	-	150	150	150	-
Integrated lights		SI	-	SI	-	SI	-	-	SI
Degree of protection	IP	44	44	44	44	44	44	44	44
Dimensions (L-P-H)	mm	330-210- 300	330-210- 300	330-210- 300	330-210- 300	330-210- 300	330-210- 300	330-210- 300	330-210- 300
Weight	Kg	12	12	12,5	12,5	13	15,5	16	12,5
Operating temperat.	°C	-20+55	-20+55	-20+55	-20+55	-20+55	-20+55	-20+55	-20+55
Leaves max weight	Kg	400	400	700	700	1100	500	800	1200
Sound emission level	dB(A)	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70

## 3 - PRELIMINARY CHECKS

Before installing this product, verify and check the following steps:

- Check that the gate or door are suitable for automation
- The weight and size of the gate or door must be within the maximum permissible operating limits
- Check the presence and strength of the security mechanical stops of the gate or door
- Check that the mounting area of the product is not subject to flooding
- Conditions of high acidity or salinity or proximity to heat sources could cause malfunction of the product
- Extreme weather conditions (for example the presence of snow, ice, high temperature range, high temperatures) may increase the friction and therefore the force required for the handling and initial starting point may be higher than under normal conditions.

- Check that the manual operation of gate or door is smooth and friction-free and there is no risk of derailment of the same

- Check that the gate or door are in equilibrium and stationary if left in any position

- Check that the power line to supply the product is equipped with proper grounding safety and protected by a magnetothermal and differential security device

- Provide the power system with a disconnecting device with a gap of contacts enabling full disconnection under the conditions dictated by the overvoltage category III.

- Ensure that all materials used for the installation comply with current regulations

## 4 - PRODUCT INSTALLATION

### 4.1 - Installation

#### **! ATTENTION !**

The installer shall check that the temperature range marked on the drive is suitable for the location.

Before proceeding with the installation, check the integrity of the product and that all components are present in the package. Check that the gate weight respects the limit of the table (paragraph 2.2) and dimensions of the gear motor are met (Fig. 1).

Fig.2 shows a typical installation:

Gear motor (1)  
Photocells (2)  
Columns for photocells (3)  
Flashing light with antenna (4)  
Key switch or digital keypad (5)  
Pressure-sensitive edge (6)

#### **! ATTENTION !**

The automation system must be equipped with a pressure-sensitive edge protecting all possible crushing points (hands, feet, etc.) in accordance with the requirements of the EN 13241-1 standard.

### 4.2 - Installing the foundation box

Verify the orientation and the overall dimensions of the base plate, fix to ground the base-plate through 4 sturdy screw-anchors or drown it into the concrete (Fig.3).

Provide one or more corrugated duct tubes for routing the electric cables.

#### **! ATTENTION !**

The exact dimensions of the rack must be known to allow precise calculation of the fixing plate position.

### 4.3 - Motor unlock

To release the gearmotor remove the cap on the side (Fig.4.1) and turn the pin with the release key or the Sub remote control (Fig.4.2). Then turn the lever (Fig.5).

#### **! ATTENTION !**

With motors with integrated night lights (Night Light System) make sure not to rip off the cable that connects the leds on the cover with the control board. If necessary, disconnect the connector shown in figure 7.

### 4.4 - Fixing the plate

Open the cover by applying leverage with a screwdriver on the recesses at the sides (Fig.6).

Place the gearmotor on the plate and fix the 4 nuts (Fig.8a). If the permitted adjustment of the rack is not sufficient, before tightening the nuts the height of the gearmotor can be corrected using the four regulator stud bolts (Fig.8b).

After the adjustment, it is important to fully tighten the nuts, making

sure that the gearmotor is firmly anchored to the ground throughout the gate's travel stroke.

The screws should be tightened again after the gearmotor has been operated a few times.

Replace the cover so that the light is pointed in the required direction (Fig.9), such as towards the passage.

### 4.5 - Rack assembling

Open entirely the gate.

Put a rack element on the pinion gear and fasten it to the gate with screw and spacing bars (Fig.10).

Move the gate manually bringing the pinion gear into line with the last spacing bar.

Fasten the rack element for good.

For a correct positioning of the other elements and to assure their straightness, it is necessary to employ a rack element using it as support and reference. It is besides necessary to assure an aperture of 2 mm between rack and pinion gear, so that the gate weight doesn't rest on the gearmotor pinion gear.

### 4.6 - Limit switch fixing

#### **! ATTENTION !**

The gate has to be equipped with stop locks at the opening and closing, which prevent the gate derailment.

The stop lock position must assure that the limit switch brackets don't collide with the pinion gear. (Fig.11)

Haul the gate manually at the opening leaving, depending on the gate weight, a crack from 30 to 50 mm between the main gate and mechanical stop.

Fasten the limit switch bracket through the dowels so that the limit switch is pressed (Fig.11).

Follow the instructions of the control panel and close the cover.

## 5 - TESTING AND COMMISSIONING THE AUTOMATION SYSTEM

The testing of the system must be performed by qualified technicians who must perform the tests required by relevant legislation related to risks, ensuring compliance with the provisions of the

regulations, in particular the EN12445 standard, which specifies the testing methods for the automation of doors and gates.

### 5.1 - Testing

All system components must be tested following the procedures outlined in the respective instruction manuals.

Check that they meet the guidelines in Chapter 1 - Safety warnings  
Check that the gate or door can move freely once the automation is unlocked, and that they are in equilibrium and stationary if left in any position.

Check the correct operation of all connected devices (photocells, sensitive edges, emergency buttons, etc.), testing the opening, closing and stopping of the gate or door via the connected control devices (transmitters, buttons, switches).

Carry out measurements of the impact force, as prescribed by standard EN12445 adjusting the functions of speed, motor force and deceleration of the unit if the measurements do not give the desired results until you find the right setting.

### 5.2 - Commissioning

Following the successful testing of all (and not just some) devices in the system you can proceed with the commissioning.

You must prepare, and keep for 10 years, the technical file of the system with the wiring diagram, drawing or photo of the system, risks analysis and solutions adopted, manufacturer declaration of conformity of all devices connected, instruction manual of each device and maintenance schedule of the system.

Fix on the gate or door a plaque indicating the automation data, the name of the person responsible for the commissioning, the serial number and year of construction, the CE mark.

Attach a plaque indicating the steps required to manually unlock the system.

Implement and deliver to the end user the declaration of conformity, the instructions and warnings for use for the end user and the maintenance schedule of the system.

Make sure the user understands proper automatic, manual and emergency operation of the automation.

Inform the end user in writing of the dangers and risks still present.

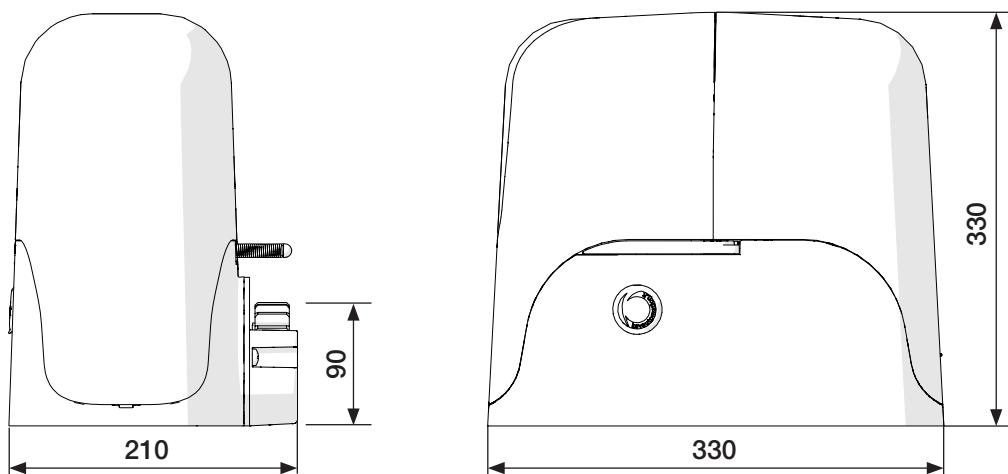
## 6 - IMAGES

**Fig. 1 IT - Dimensioni d' ingombro**

EN - Space dimensions  
FR - Dimensions d'encombrement  
ES - Dimensiones

DE - Abmessungen

PT - Dimensões globais  
PL - Wymiary

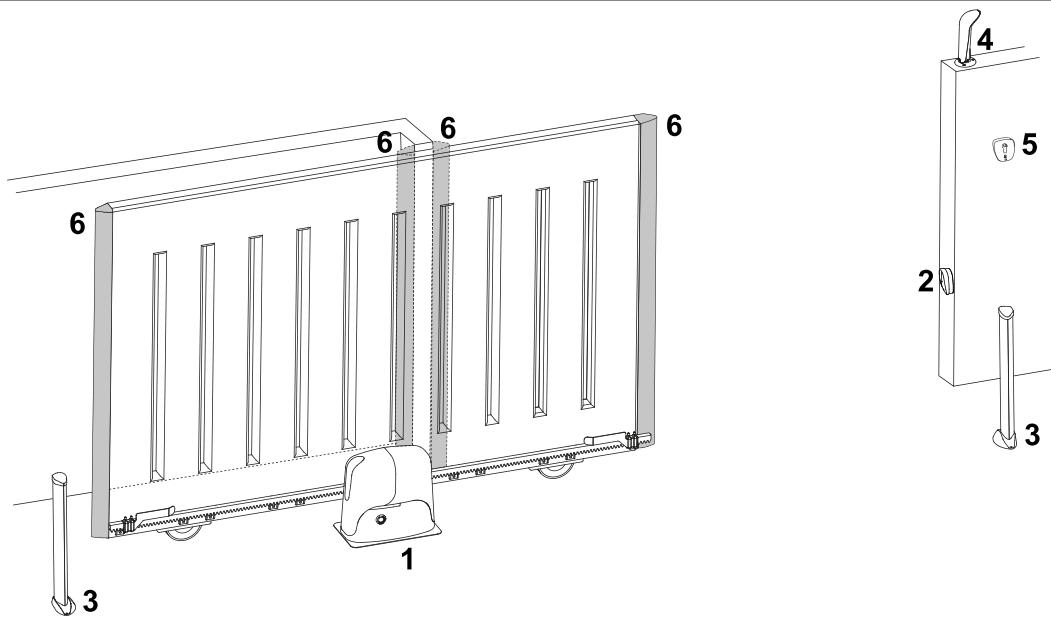


**Fig. 2 IT - Installazione tipica**

EN - Typical Installation  
FR - Installation type  
ES - Instalación típica

DE - Typische Installation

PT - Instalação típica  
PL - Typowy sposób instalacji



### SUN5024F

**ATTENZIONE:** porre molta attenzione considerando l'elevata velocità del cancello al fine di ottenere un livello di sicurezza alto come indicato in figura.  
Con la centrale 14A FAST è possibile programmare separatamente la velocità di apertura e chiusura del motoriduttore. La centrale di comando 14A FAST all'interno del motore è dedicata solamente alla gestione del SUN5024F e non può essere utilizzata per il controllo di altre automazioni.

**CAUTION:** take great care in consideration of the high speed of the gate, in order to ensure a high level of safety as indicated in the figure.  
Control unit 14A FAST enables separate programming of the gearmotor opening and closing speed. Control unit 14A FAST inside the motor is dedicated exclusively to the management of the model SUN5024F and cannot be used for the control of other automations.

**ATTENTION :** compte tenu de la vitesse élevée du portail, être très vigilant afin de garantir un niveau de sécurité optimal, en suivant les indications fournies par la figure.  
La logique de commande 14A FAST permet de programmer séparément la vitesse d'ouverture et de fermeture du motoréducteur. La logique de commande 14A FAST à l'intérieur du moteur permet uniquement de gérer le SUN5024F et ne peut pas être utilisée pour commander d'autres automatismes.

**ATENCIÓN:** considerando la elevada velocidad de la puerta, ponga mucha atención para lograr un nivel de seguridad alto como indicado en la figura.  
Con la central 14A FAST es posible programar por separado la velocidad de apertura y de cierre del motorreductor. La central de mando 14A FAST dentro del motor está dedicada solo a la gestión de SUN5024F y no puede utilizarse para controlar otros automatismos.

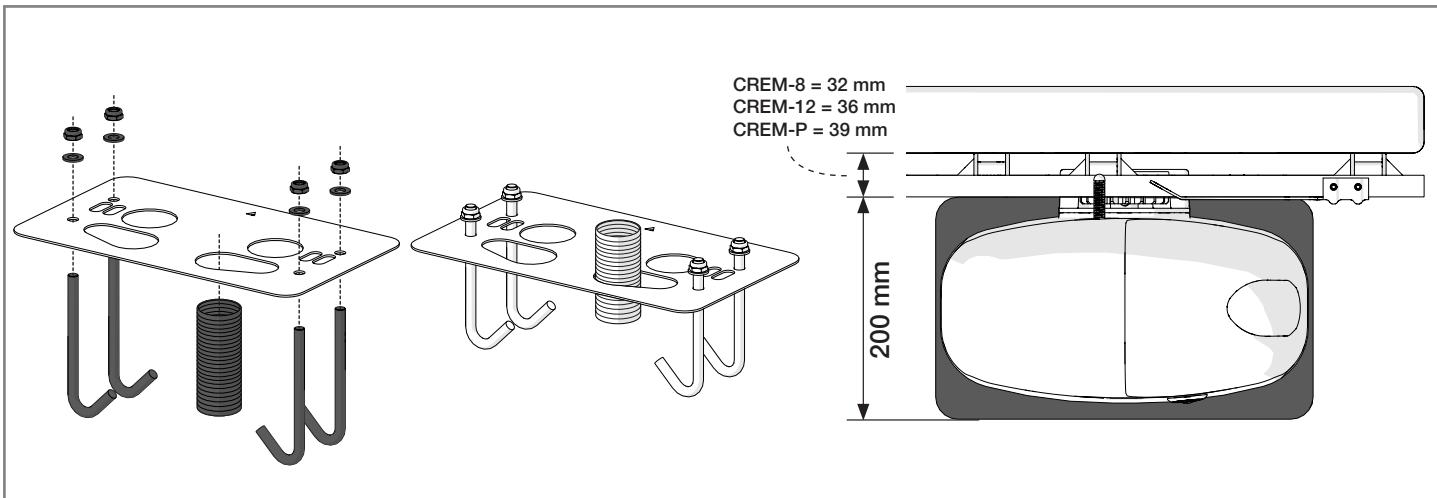
**ACHTUNG:** Angesichts der hohen Torgeschwindigkeit sehr vorsichtig sein, um einen hohen Sicherheitsgrad zu gewährleisten, wie auf der Abbildung angegeben.  
Mit der Steuereinheit 14A FAST besteht die Möglichkeit, am Getriebemotor die Öffnungs- und Schließgeschwindigkeit getrennt zu programmieren. Die Steuereinheit 14A FAST im Innern des Motors dient nur dem Betrieb von SUN5024F und kann nicht zur Kontrolle anderer Automatisierungen benutzt werden.

**ATENÇÃO:** prestar a maior atenção considerando a alta velocidade do portão a fim de obter um nível de segurança alto conforme indicado na figura.  
Com a unidade 14A FAST é possível programar separadamente a velocidade de abertura e de fecho do motorreductor. A unidade de comando 14A FAST no interior do motor destina-se apenas à gestão do SUN5024F e não pode ser utilizada para o controlo de outras automações.

**UWAGA:** zwrócić szczególną uwagę, mając na względzie znaczną prędkość pracy bramy, na zapewnienie wysokiego stopnia bezpieczeństwa, jak to zostało przedstawione na rysunku. Za pomocą centralki 14A FAST można oddzielnie zaprogramować prędkość otwierania i zamknięcia motoreduktora. Centrala sterująca 14A FAST w obrębie silnika służy wyłącznie do obsługi SUN5024F i nie może być używana do sterowania automatyką innego rodzaju.

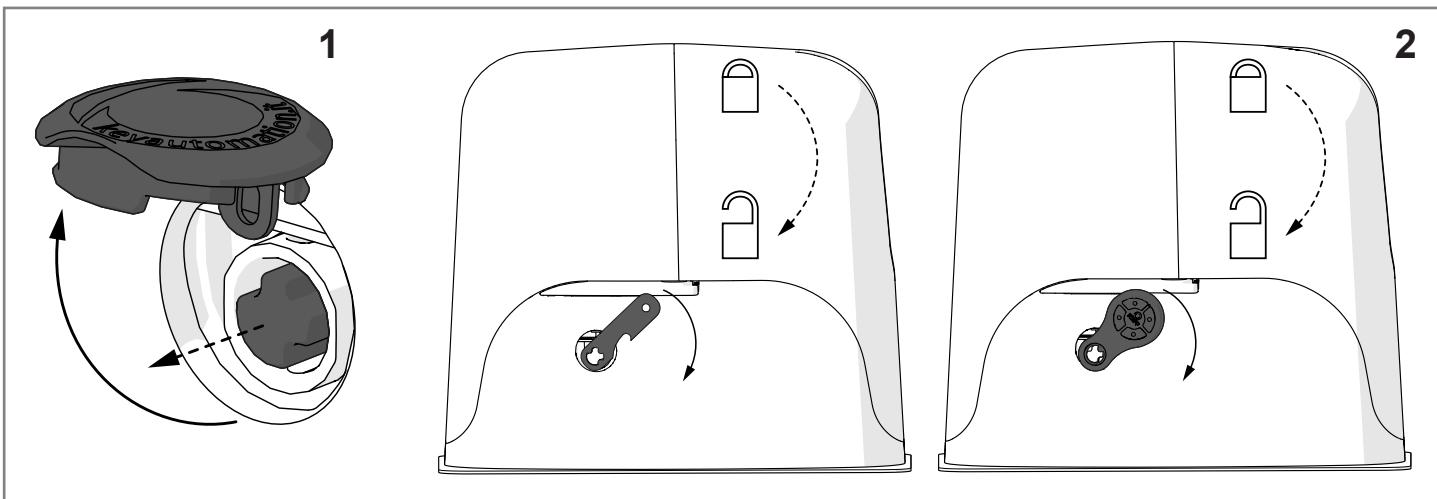
**Fig. 3 IT - Piastra di fissaggio**  
**EN - Foundation box**  
**FR - Plaque de fondation**  
**ES - Caja de cimentación**

**DE - Stiftung Feld**  
**PT - Placa de fundação**  
**PL - Fundacja skrzynki**



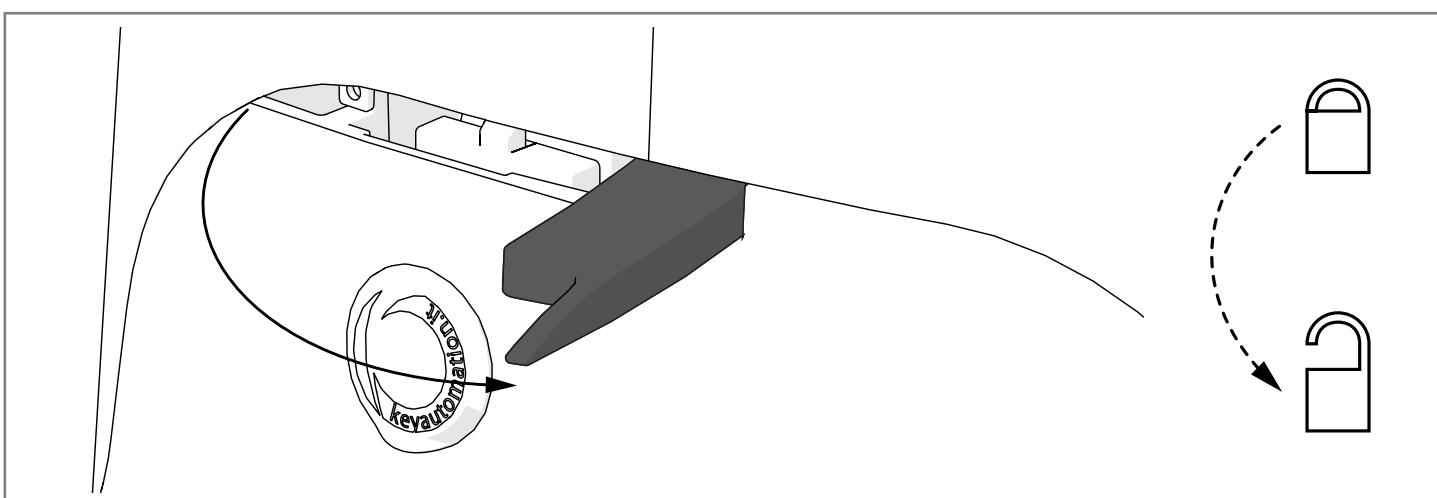
**Fig. 4 IT - Sblocco del motoriduttore**  
**EN - Gearmotor release**  
**FR - Déblocage du motorréducteur**  
**ES - Desbloqueo del motorreductor**

**DE - Entriegeln des Getriebemotors**  
**PT - Desbloqueio do motorredutor**  
**PL - Odblokowanie motoreduktora**



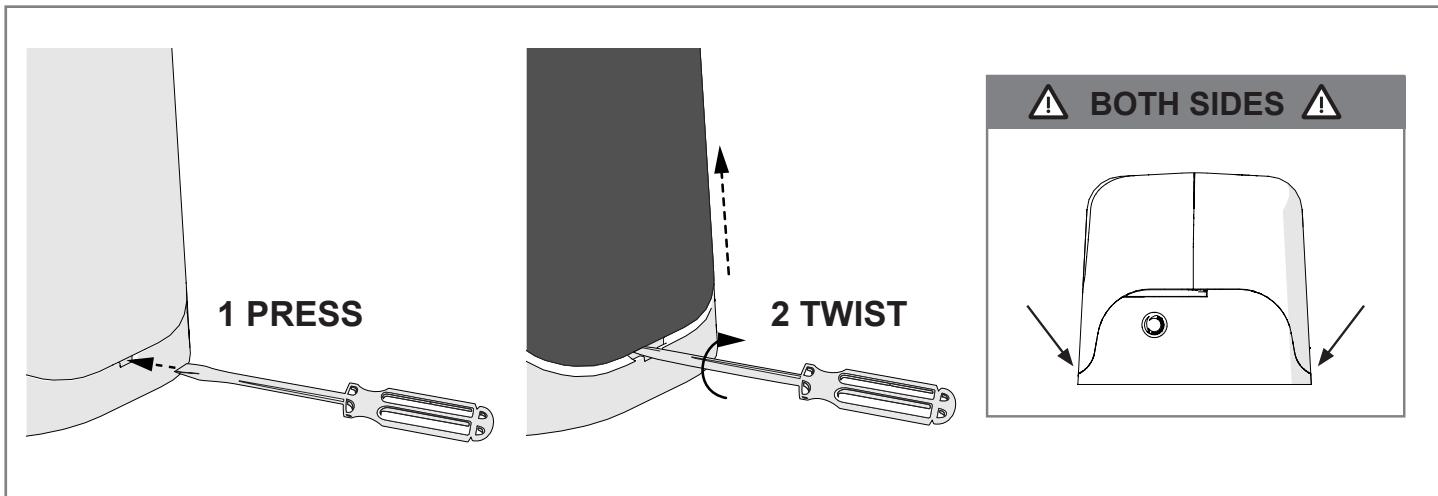
**Fig. 5 IT - Sblocco del motoriduttore**  
**EN - Gearmotor release**  
**FR - Déblocage du motorréducteur**  
**ES - Desbloqueo del motorreductor**

**DE - Entriegeln des Getriebemotors**  
**PT - Desbloqueio do motorredutor**  
**PL - Odblokowanie motoreduktora**



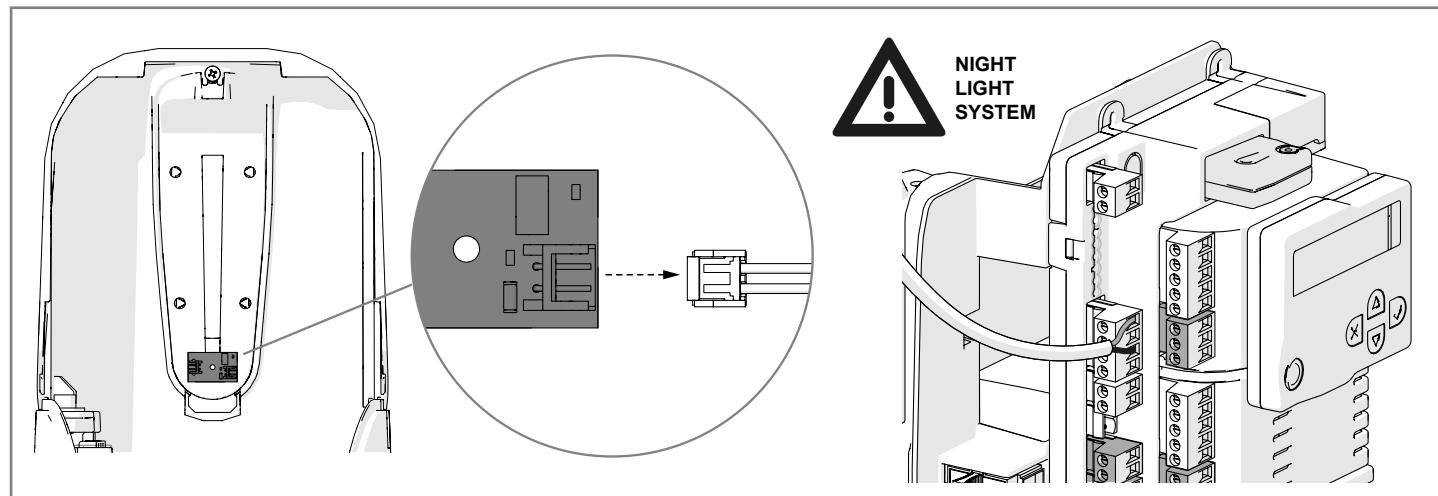
**Fig. 6 IT - Apertura del coperchio**  
EN - Opening the cover  
FR - Ouverture du couvercle  
ES - Apertura de la tapa

DE - Öffnung des Deckels  
PT - Abertura da tampa  
PL - Otwieranie pokrywy



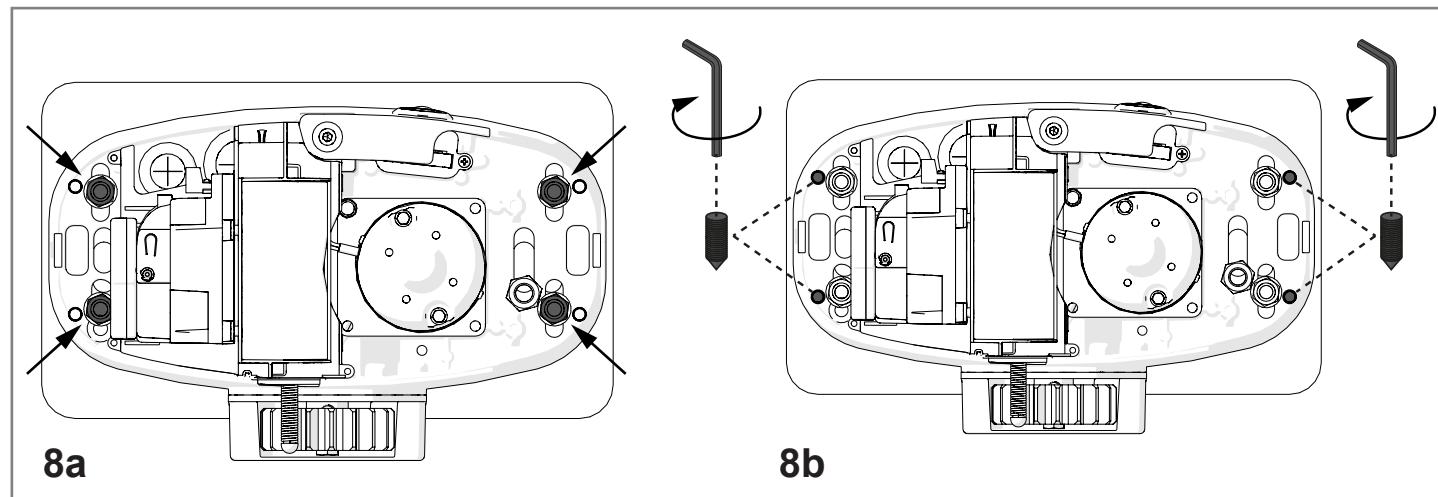
**Fig. 7 IT - Night Light System**  
EN - Night Light System  
FR - Night Light System  
ES - Night Light System

DE - Night Light System  
PT - Night Light System  
PL - Night Light System



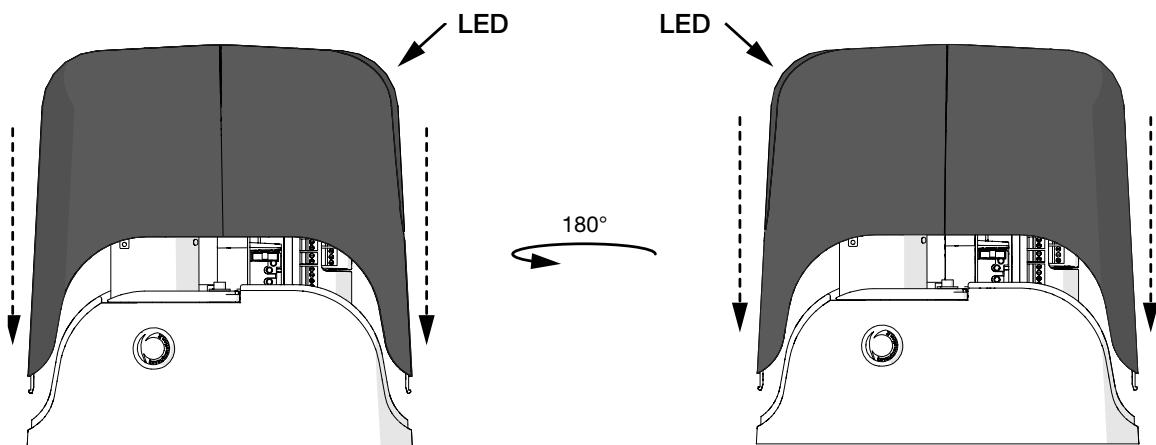
**Fig. 8 IT - Fissaggio della piastra**  
EN - Installing the foundation box  
FR - Fixation de la plaque de fondation  
ES - Instalación de la caja de cimentación

DE - Entriegeln des Getriebemotors  
PT - Instalando a caixa de fundação  
PL - Montaż skrzynki fundamentowej



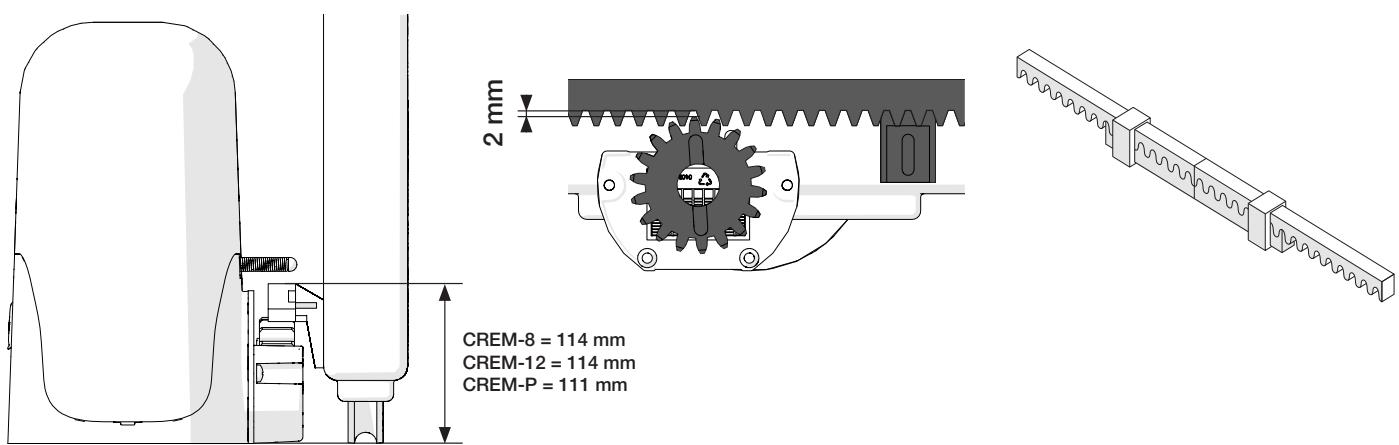
**Fig. 9 IT - Chiusura del coperchio**  
 EN - Closing the cover  
 FR - Fermeture du couvercle  
 ES - Cierre de la tapa

DE - Schließung des Deckels  
 PT - Fecho da tampa  
 PL - Zamykanie pokrywy



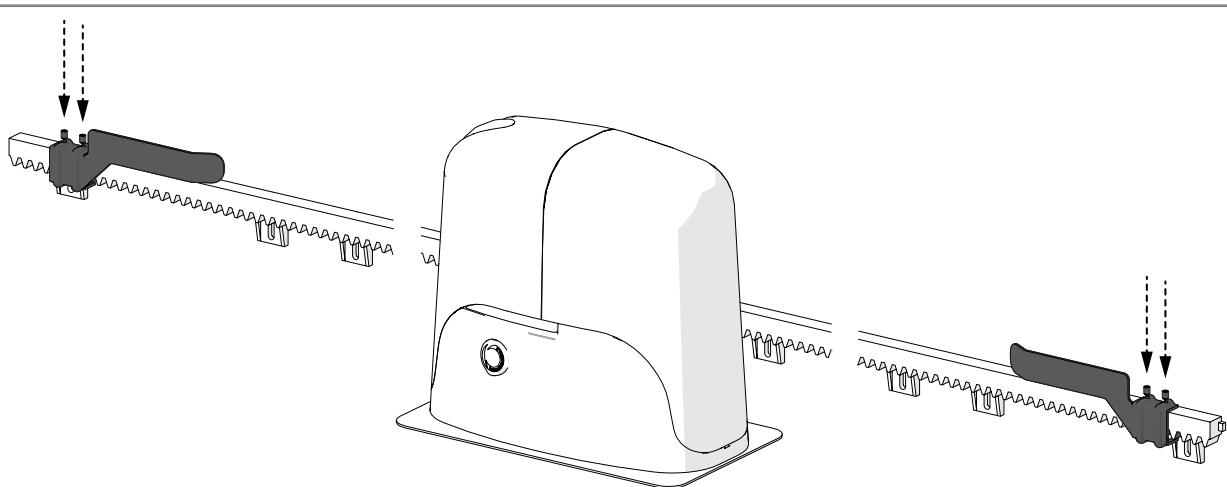
**Fig. 10 IT - Fissaggio cremagliera**  
 EN - Rack assembling  
 FR - Pose de la crémaillère  
 ES - Fijacion de la cremallera

DE - Montage der zahnstange  
 PT - Fixação da cremalheira  
 PL - Montowanie listwy



**Fig. 11 IT - Fissaggio dei finecorsa**  
 EN - Limit switch fixing  
 FR - Fixation des dispositifs de fin de course  
 ES - Fijación del fin de carrera

DE - Befestigung der anschläge  
 PT - Fixação dos fins de curso  
 PL - Mocowanie wyłącznika krańcowego



## 7 - DICHIARAZIONE DI CONFORMITÀ

### DICHIARAZIONE DI INCORPORAZIONE DI QUAS-MACCHINA DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

Il sottoscritto Nicola Michelin, Amministratore Delegato dell'azienda  
*The undersigned Nicola Michelin, General Manager of the company*

Key Automation srl, Via Meucci, 23 - 30027 San Donà di Piave (VE) - ITALIA

dichiara che il prodotto tipo:  
*declares that the product type:*

**SUN**

Motoriduttore elettromeccanico irreversibile per cancelli scorrevoli da 400kg a 1200kg  
*Electromechanical irreversible gear motor for sliding gates from 400kg to 1200kg*

Models:  
*Models:*

SUN52, SUN82, SUN122  
SUN4024, SUN4024M, SUN4224, SUN5024F, SUN7024, SUN7024M, SUN7224, SUN11024, SUN11024M

E' conforme a quanto previsto dalle seguenti direttive comunitarie:  
*Is in conformity with the following community (EC) regulations:*

Direttiva macchine / *Machinery Directive* 2006/42/EC  
Direttiva compatibilità elettromagnetica / *EMC Directive* 2014/30/EU  
Direttiva bassa tensione / *Low voltage Directive* 2014/35/EU  
Direttiva radiofrequenza / *RED Directive* 2014/53/EU  
Direttiva RoHS / *RoHS Directive* 2011/65/UE

Secondo quanto previsto dalle seguenti norme armonizzate:  
*In accordance with the following harmonized standards regulations:*

ETSI EN 301489-3:2013, ETSI EN 301489-1:2011  
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013  
EN 61000-3-2:2014, EN 61000-3-3:2013  
EN 61000-6-2:2005, EN 61000-6-3:2007  
EN 60335-1:2012 + A1 + A11; EN 60335-2-103:2015  
EN 55014-1:2006 + A1 + A2; EN 55014-2:2015  
EN 62233:2008

Dichiara che la documentazione tecnica pertinente al prodotto è stata redatta conformemente a quanto previsto dalla direttiva 2006/42/CE Allegato VII parte B e verrà fornita a fronte di una richiesta adeguatamente motivata dalle autorità nazionali.

*Declares that the technical documentation is compiled in accordance with the directive 2006/42/EC Annex VII part B and will be transmitted in response to a reasoned request by the national authorities.*

Dichiara altresì che non è consentita la messa in servizio del prodotto finchè la macchina, in cui il prodotto è incorporato, non sia stata dichiarata conforme alla direttiva 2006/42/CE.

*He also declares that is not allowed to use the above mentioned product until the machine, in which this product is incorporated, has been identified and declared in conformity with the regulation 2006/42/EC.*

San Donà di Piave (VE), 21/02/17

Amministratore Delegato  
*General Manager*  
Nicola Michelin

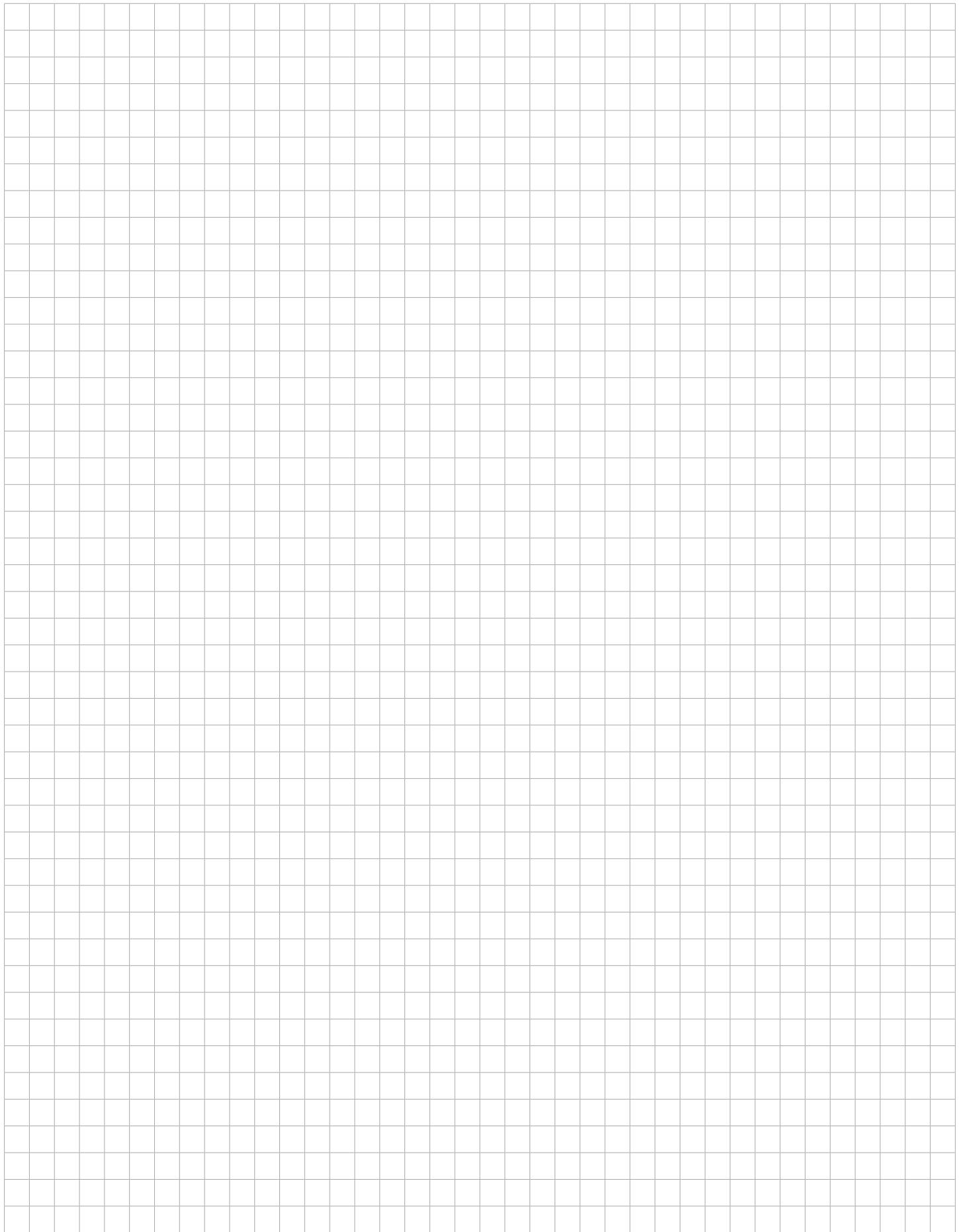


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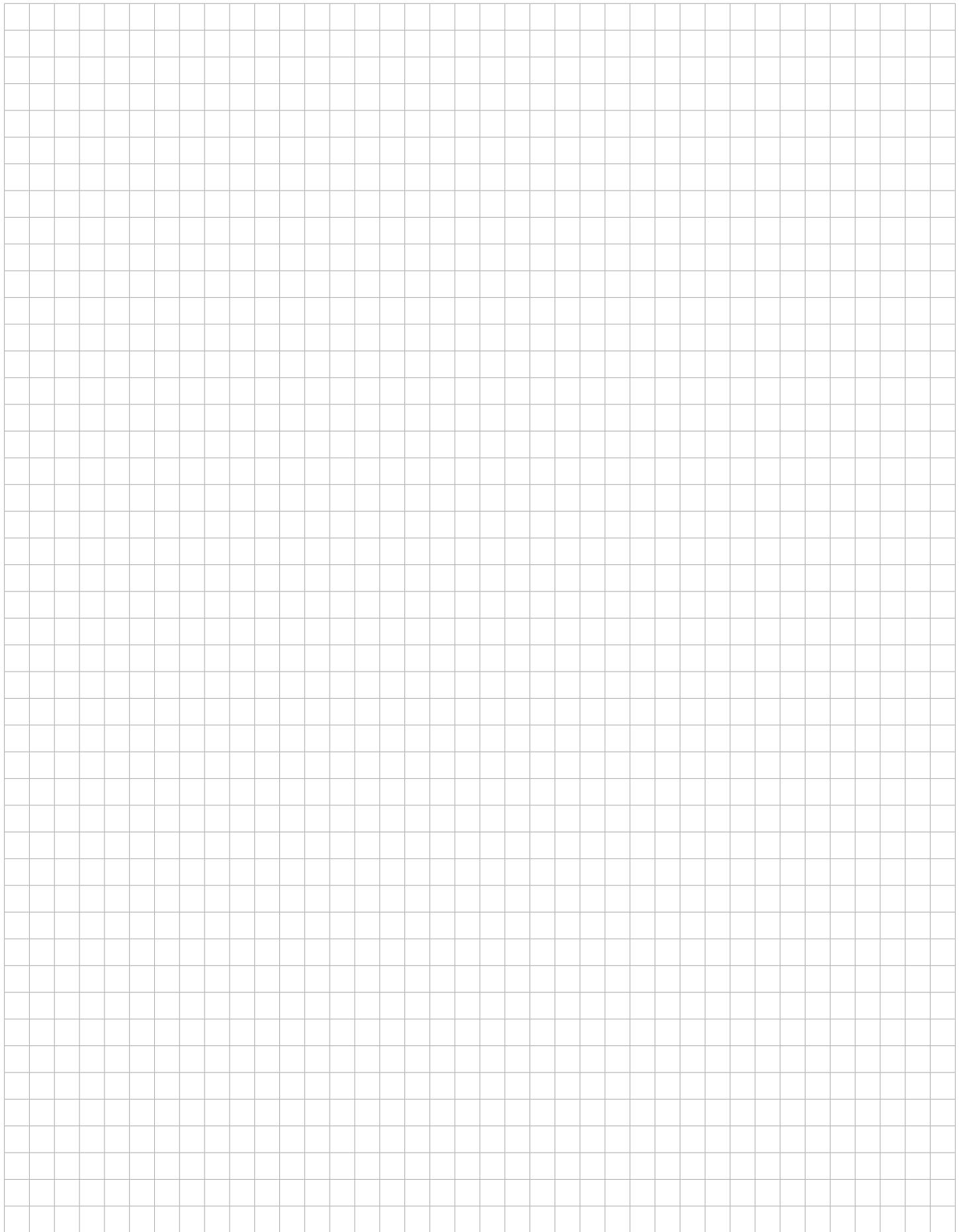
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## NOTE



## NOTE



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