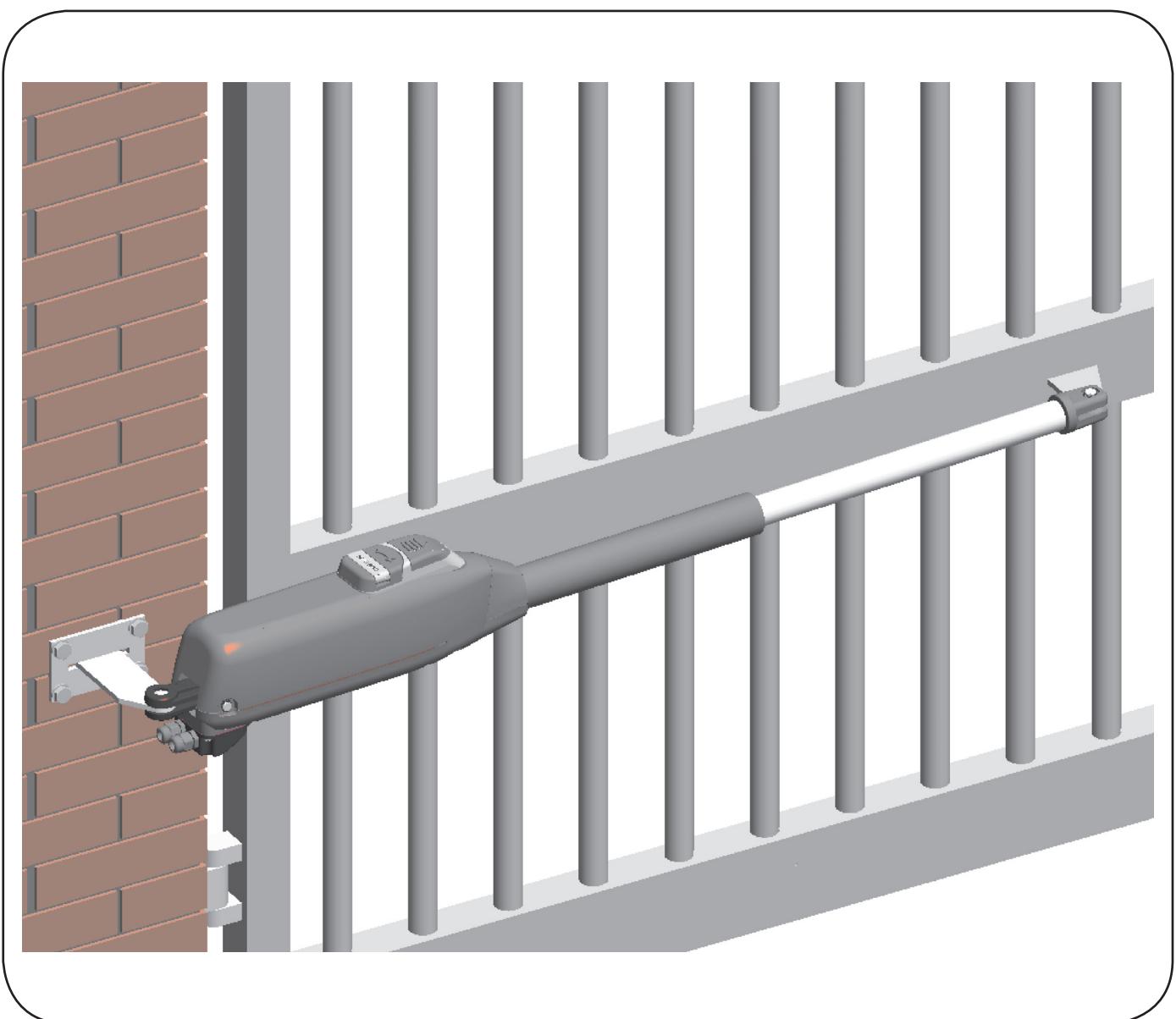


MISTRAL ENV



GENiUS®

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

CE

ITALIANO

AVVERTENZE PER L'INSTALLATORE OBBLIGHI GENERALI PER LA SICUREZZA



ATTENZIONE! È importante per la sicurezza delle persone seguire attentamente tutta l'istruzione. Una errata installazione o un errato uso del prodotto può portare a gravi danni alle persone.

- Leggere attentamente le istruzioni prima di iniziare l'installazione del prodotto.
- I materiali dell'imballaggio (plastica, polistirolo, ecc.) non devono essere lasciati alla portata dei bambini in quanto potenziali fonti di pericolo.
- Conservare le istruzioni per riferimenti futuri.
- Questo prodotto è stato progettato e costruito esclusivamente per l'utilizzo indicato in questa documentazione. Qualsiasi altro utilizzo non esplicitamente indicato potrebbe pregiudicare l'integrità del prodotto e/o rappresentare fonte di pericolo.
- GENIUS declina qualsiasi responsabilità derivata dall'uso improprio o diverso da quello per cui l'automaticismo è destinato.
- Non installare l'apparecchio in atmosfera esplosiva: la presenza di gas o fumi infiammabili costituisce un grave pericolo per la sicurezza.
- Gli elementi costruttivi meccanici devono essere in accordo con quanto stabilito dalle Norme EN 12604 e EN 12605.
- Per i Paesi extra-CEE, oltre ai riferimenti normativi nazionali, per ottenere un livello di sicurezza adeguato, devono essere seguite le Norme sopra riportate.
- GENIUS non è responsabile dell'osservanza della Buona Tecnica nella costruzione delle chiusure da motorizzare, nonché delle deformazioni che dovessero intervenire nell'utilizzo.
- L'installazione deve essere effettuata nell'osservanza delle Norme EN 12453 e EN 12445. Il livello di sicurezza dell'automaticismo deve essere C+D.
- Prima di effettuare qualsiasi intervento sull'impianto, togliere l'alimentazione elettrica e scollegare le batterie.
- Prevedere sulla rete di alimentazione dell'automaticismo un interruttore onnipolare con distanza d'apertura dei contatti uguale o superiore a 3 mm. È consigliabile l'uso di un magnetotermico da 6A con interruzione onnipolare.
- Verificare che a monte dell'impianto vi sia un interruttore differenziale con soglia da 0,03 A.
- Verificare che l'impianto di terra sia realizzato a regola d'arte e collegarvi le parti metalliche della chiusura.
- L'automaticismo dispone di una sicurezza intrinseca antischiacciamento costituita da un controllo di coppia. È comunque necessario verificare le soglie di intervento secondo quanto previsto dalle Norme indicate al punto 10.
- I dispositivi di sicurezza (norma EN 12978) permettono di proteggere eventuali aree di pericolo da Rischi meccanici di movimento, come ad Es. schiacciamento, convogliamento, cesoioamento.
- Per ogni impianto è consigliato l'utilizzo di almeno una segnalazione luminosa nonché di un cartello di segnalazione fissato adeguatamente sulla struttura dell'infissi, oltre ai dispositivi citati al punto "16".
- GENIUS declina ogni responsabilità ai fini della sicurezza e del buon funzionamento dell'automaticismo, in caso vengano utilizzati componenti dell'impianto non di produzione GENIUS.
- Per la manutenzione utilizzare esclusivamente parti originali GENIUS.
- Non eseguire alcuna modifica sui componenti facenti parte del sistema d'automaticismo.
- L'installatore deve fornire tutte le informazioni relative al funzionamento manuale del sistema in caso di emergenza e consegnare all'Utente utilizzatore dell'impianto il libretto d'avvertenze allegato al prodotto.
- Non permettere ai bambini o persone di sostare nelle vicinanze del prodotto durante il funzionamento.
- L'applicazione non può essere utilizzata da bambini, da persone con ridotte capacità fisiche, mentali, sensoriali o da persone prive di esperienza o del necessario addestramento.
- Tenere fuori dalla portata dei bambini radiocomandi o qualsiasi altro dattore di impulso, per evitare che l'automaticismo possa essere azionata involontariamente.
- Il transito tra le ante deve avvenire solo a cancello completamente aperto.
- L'utente utilizzatore deve astenersi da qualsiasi tentativo di riparazione o d'intervento e deve rivolgersi solo ed esclusivamente a personale qualificato GENIUS o centri d'assistenza GENIUS.
- Tutto quello che non è previsto espressamente in queste istruzioni non è permesso.

ENGLISH

IMPORTANT NOTICE FOR THE INSTALLER GENERAL SAFETY REGULATIONS



ATTENTION! To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product could cause serious harm to people.

- Carefully read the instructions before beginning to install the product.
- Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger.
- Store these instructions for future reference.
- This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.
- GENIUS declines all liability caused by improper use or use other than that for which the automated system was intended.
- Do not install the equipment in an explosive atmosphere: the presence of inflammable gas or fumes is a serious danger to safety.
- The mechanical parts must conform to the provisions of Standards EN 12604 and EN 12605.
- For non-EU countries, to obtain an adequate level of safety, the Standards mentioned above must be observed, in addition to national legal regulations.
- GENIUS is not responsible for failure to observe Good Technique in the construction of the closing elements to be motorised, or for any deformation that may occur during use.
- The installation must conform to Standards EN 12453 and EN 12445. The safety level of the automated system must be C+D.
- Before attempting any job on the system, cut out electrical power and disconnect the batteries.
- The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm or greater. Use of a 6A thermal breaker with all-pole circuit break is recommended.
- Make sure that a differential switch with threshold of 0.03 A is fitted upstream of the system.
- Make sure that the earthing system is perfectly constructed, and connect metal parts

of the means of the closure to it.

- The automated system is supplied with an intrinsic anti-crushing safety device consisting of a torque control. Nevertheless, its tripping threshold must be checked as specified in the Standards indicated at point 10.
- The safety devices (EN 12978 standard) protect any danger areas against mechanical movement Risks, such as crushing, dragging, and shearing.
- Use of at least one indicator-light is recommended for every system, as well as a warning sign adequately secured to the frame structure, in addition to the devices mentioned at point "16".
- GENIUS declines all liability as concerns safety and efficient operation of the automated system, if system components not produced by GENIUS are used.
- For maintenance, strictly use original parts by GENIUS.
- Do not in any way modify the components of the automated system.
- The installer shall supply all information concerning manual operation of the system in case of an emergency, and shall hand over to the user the warnings handbook supplied with the product.
- Do not allow children or adults to stay near the product while it is operating.
- The application cannot be used by children, by people with reduced physical, mental, sensorial capacity, or by people without experience or the necessary training.
- Keep remote controls or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
- Transit through the leaves is allowed only when the gate is fully open.
- The User must not in any way attempt to repair or to take direct action and must solely contact qualified GENIUS personnel or GENIUS service centres.
- Anything not expressly specified in these instructions is not permitted.

FRANÇAIS

CONSIGNES POUR L'INSTALLATEUR

RÈGLES DE SÉCURITÉ



ATTENTION! Il est important, pour la sécurité des personnes, de suivre à la lettre toutes les instructions. Une installation erronée ou un usage erroné du produit peut entraîner de graves conséquences pour les personnes.

- Lire attentivement les instructions avant d'installer le produit.
- Les matériaux d'emballage (matière plastique, polystyrène, etc.) ne doivent pas être laissés à la portée des enfants car ils constituent des sources potentielles de danger.
- Conserver les instructions pour les références futures.
- Ce produit a été conçu et construit exclusivement pour l'usage indiqué dans cette documentation. Toute autre utilisation non expressément indiquée pourrait compromettre l'intégrité du produit et/ou représenter une source de danger.
- GENIUS décline toute responsabilité qui dériverait d'un usage impropre ou différent de celui auquel l'automaticisme est destiné.
- Ne pas installer l'appareil dans une atmosphère explosive: la présence de gaz ou de fumées inflammables constitue un grave danger pour la sécurité.
- Les composants mécaniques doivent répondre aux prescriptions des Normes EN 12604 et EN 12605.
- Pour les Pays extra-CEE, l'obtention d'un niveau de sécurité approprié exige non seulement le respect des normes nationales, mais également le respect des Normes susmentionnées.
- GENIUS n'est pas responsable du non-respect de la Bonne Technique dans la construction des fermetures à motoriser, ni des déformations qui pourraient intervenir lors de l'utilisation.
- L'installation doit être effectuée conformément aux Normes EN 12453 et EN 12445. Le niveau de sécurité de l'automaticisme doit être C+D.
- Couper l'alimentation électrique et déconnecter la batterie avant toute intervention sur l'installation.
- Prévoir, sur le secteur d'alimentation de l'automaticisme, un interrupteur onnipolaire avec une distance d'ouverture des contacts égale ou supérieure à 3 mm. On recommande d'utiliser un magnétothermique de 6A avec interruption onnipolaire.
- Vérifier qu'il y ait, en amont de l'installation, un interrupteur différentiel avec un seuil de 0,03 A.
- Vérifier que la mise à terre est réalisée selon les règles de l'art et y connecter les pièces métalliques de la fermeture.
- L'automaticisme dispose d'une sécurité intrinsèque anti-érassement, formée d'un contrôle du couple. Il est toutefois nécessaire d'en vérifier le seuil d'intervention suivant les prescriptions des Normes indiquées au point 10.
- Les dispositifs de sécurité (norme EN 12978) permettent de protéger des zones éventuellement dangereuses contre les Risques mécaniques du mouvement, comme l'érassement, l'acheminement, le cisaillement.
- On recommande que toute installation soit doté au moins d'une signalisation lumineuse, d'un panneau de signalisation fixé, de manière appropriée, sur la structure de la fermeture, ainsi que des dispositifs cités au point "16".
- GENIUS décline toute responsabilité quant à la sécurité et au bon fonctionnement de l'automaticisme si les composants utilisés dans l'installation n'appartiennent pas à la production GENIUS.
- Utiliser exclusivement, pour l'entretien, des pièces GENIUS originales.
- Ne jamais modifier les composants faisant partie du système d'automaticisme.
- L'installateur doit fournir toutes les informations relatives au fonctionnement manuel du système en cas d'urgence et remettre à l'Usager qui utilise l'installation les "Instructions pour l'Usage" fournies avec le produit.
- Interdire aux enfants ou aux tiers de stationner près du produit durant le fonctionnement.
- Ne pas permettre aux enfants, aux personnes ayant des capacités physiques, mentales et sensorielles limitées ou dépourvues de l'expérience ou de la formation nécessaires d'utiliser l'application en question.
- Eloigner de la portée des enfants les radiocommandes ou tout autre générateur d'impulsions, pour éviter tout actionnement involontaire de l'automaticisme.
- Le transit entre les vantaux ne doit avoir lieu que lorsque le portail est complètement ouvert.
- L'utilisateur doit s'abstenir de toute tentative de réparation ou d'intervention et doit s'adresser uniquement et exclusivement au personnel qualifié GENIUS ou aux centres d'assistance GENIUS.
- Tout ce qui n'est pas prévu expressément dans ces instructions est interdit.

ESPAÑOL

ADVERTENCIAS PARA EL INSTALADOR

REGLAS GENERALES PARA LA SEGURIDAD



ATENCION! Es sumamente importante para la seguridad de las personas seguir atentamente las presentes instrucciones. Una instalación incorrecta o un uso impropio del producto puede causar graves daños a las personas.

- Lean detenidamente las instrucciones antes de instalar el producto.
- Los materiales del embalaje (plástico, poliestireno, etc.) no deben dejarse al alcance de los niños, ya que constituyen fuentes potenciales de peligro.
- Guardar las instrucciones para futuras consultas.
- Este producto ha sido proyectado y fabricado exclusivamente para la utilización indicada en el presente manual. Cualquier uso diverso del previsto podría perjudicar el funcionamiento del producto y/o representar fuente de peligro.
- GENIUS declina cualquier responsabilidad derivada de un uso impropio o diverso del previsto.
- No instalen el aparato en atmósfera explosiva: la presencia de gas o humos inflamables constituye un grave peligro para la seguridad.
- Los elementos constructivos mecánicos deben estar de acuerdo con lo establecido en las Normas EN 12604 y EN 12605.
- Para los países no pertenecientes a la CEE, además de las referencias normativas nacionales, para obtener un nivel de seguridad adecuado, deben seguirse las Normas arriba indicadas.
- GENIUS no es responsable del incumplimiento de las buenas técnicas de fabricación de los cierres que se han de motorizar, así como de las deformaciones que pudieran intervenir en la utilización.
- La instalación debe ser realizada de conformidad con las Normas EN 12453 y EN 12445. El nivel de seguridad de la automación debe ser C+D.
- Quiten la alimentación eléctrica y desconecten las baterías antes de efectuar cualquier intervención en la instalación.
- Coloquen en la red de alimentación de la automación un interruptor omnipolar con distancia de apertura de los contactos igual o superior a 3 mm. Se aconseja usar un magnétotérmico de 6A con interrupción omnipolar.
- Comprueben que la instalación disponga línea arriba de un interruptor diferencial con umbral de 0,03 A.
- Verifiquen que la instalación de tierra esté correctamente realizada y conecten las partes metálicas del cierre.
- La automación dispone de un dispositivo de seguridad antiaplastamiento constituido por un control de par. No obstante, es necesario comprobar el umbral de intervención según lo previsto en las Normas indicadas en el punto 10.
- Los dispositivos de seguridad (norma EN 12978) permiten proteger posibles áreas de peligro de Riesgos mecánicos de movimiento, como por ej. aplastamiento, arrastre, corte.
- Para cada equipo se aconseja usar por lo menos una señalización lumínosa así como un cartel de señalización adecuadamente fijado a la estructura del bastidor, además de los dispositivos indicados en el "16".
- GENIUS declina toda responsabilidad relativa a la seguridad y al buen funcionamiento de la automación si se utilizan componentes de la instalación que no sean de producción GENIUS.
- Para el mantenimiento utilicen exclusivamente piezas originales GENIUS
- No efectúen ninguna modificación en los componentes que forman parte del sistema de automación.
- El instalador debe proporcionar todas las informaciones relativas al funcionamiento del sistema en caso de emergencia y entregar al usuario del equipo el manual de advertencias que se adjunta al producto.
- No permitan que niños o personas se defiendan en proximidad del producto durante su funcionamiento.
- La aplicación no puede ser utilizada por niños, personas con reducida capacidad física, mental, sensorial o personas sin experiencia o la necesaria formación.
- Mantengan lejos del alcance los niños los telemóviles o cualquier otro emisor de impulso, para evitar que la automación pueda ser accionada involuntariamente.
- Sólo puede transitar entre las hojas si la cancela está completamente abierta.
- El usuario debe abstenerse de intentar reparar o de intervenir directamente, y debe dirigirse exclusivamente a personal cualificado GENIUS o a centros de asistencia GENIUS.
- Todo lo que no esté previsto expresamente en las presentes instrucciones debe entenderse como no permitido

DEUTSCH

HINWEISE FÜR DEN INSTALLATIONSTECHNIKER

ALLGEMEINE SICHERHEITSVORSCHRIFTEN

ACHTUNG! Um die Sicherheit von Personen zu gewährleisten, sollte die Anleitung aufmerksam befolgt werden. Eine falsche Installation oder ein fehlerhafter Betrieb des Produktes können zu schwerwiegenden Personenschäden führen.

- Bevor mit der Installation des Produktes begonnen wird, sollten die Anleitungen aufmerksam gelesen werden.
- Das Verpackungsmaterial (Kunststoff, Styropor, usw.) sollte nicht in Reichweite von Kindern aufbewahrt werden, da es eine potentielle Gefahrenquelle darstellt.
- Die Anleitung sollte aufbewahrt werden, um auch in Zukunft Bezug auf sie nehmen zu können.
- Dieses Produkt wurde ausschließlich für den in diesen Unterlagen angegebenen Gebrauch entwickelt und hergestellt. Jeder andere Gebrauch, der nicht ausdrücklich angegeben ist, könnte die Unverzehrtheit des Produktes beeinträchtigen und/oder eine Gefahrenquelle darstellen.
- Die Firma GENIUS lehnt jede Haftung für Schäden, die durch unsachgemäßen oder nicht bestimmungsgemäßen Gebrauch der Automatik verursacht werden, ab.
- Das Gerät sollte nicht in explosionsgefährdeten Umgebungen installiert werden: das Vorhandensein von entflammabaren Gasen oder Rauch stellt ein schwerwiegendes Sicherheitsrisiko dar.
- Die mechanischen Bauteile müssen den Anforderungen der Normen EN 12604 und EN 12605 entsprechen.
- Für Länder, die nicht der Europäischen Union angehören, sind für die Gewährleistung eines entsprechenden Sicherheitsniveaus neben den nationalen gesetzlichen Bezugsvorschriften die oben aufgeführten Normen zu beachten.
- Die Firma GENIUS übernimmt keine Haftung im Falle von nicht fachgerechten Ausführungen bei der Herstellung der anzutreibenden Schließvorrichtungen sowie bei Deformationen, die eventuell beim Betrieb entstehen.
- Die Installation muß unter Beachtung der Normen EN 12453 und EN 12445 erfolgen. Die Sicherheitsstufe der Automatik sollte C+D sein.
- Vor der Ausführung jeglicher Eingriffe auf der Anlage sind die elektrische Versorgung und die Batterie abzunehmen.
- Auf dem Versorgungsnetz der Automatik ist ein omnipolarer Schalter mit Öffnungsabstand der Kontakte von über oder gleich 3 mm einzubauen. Darüber hinaus wird der Einsatz eines Magnetschutzschalters mit 6A mit omnipolarer Abschaltung empfohlen.
- Es sollte überprüft werden, ob vor der Anlage ein Differentialschalter mit einer Auslösenschwelle von 0,03 A zwischengeschaltet ist.
- Es sollte überprüft werden, ob die Erdungsanlage fachgerecht ausgeführt wurde. Die Metallteile der Schließung sollten an diese Anlage angeschlossen werden.
- Die Automatik verfügt über eine eingebaute Sicherheitsvorrichtung für den Quetschschutz, die aus einer Diemomentenkontrolle besteht. Es ist in jedem Falle erforderlich, deren Eingriffsschwelle gemäß der Vorgaben der unter Punkt 10 angegebenen Vor-
- schriften zu überprüfen.
- Die Sicherheitsvorrichtungen (Norm EN 12978) ermöglichen den Schutz eventueller Gefahrenbereiche vor mechanischen Bewegungsrisiken, wie zum Beispiel Quetschungen, Mitschleifen oder Schnittverletzungen.
- Für jede Anlage wird der Einsatz von mindestens einem Leuchtsignal empfohlen sowie eines Hinweisschildes, das über eine entsprechende Befestigung mit dem Aufbau des Tors verbunden wird. Darüber hinaus sind die unter Punkt "16" erwähnten Vorrichtungen einzusetzen.
- Die Firma GENIUS lehnt jede Haftung hinsichtlich der Sicherheit und des störungsfreien Betriebs der Automatik ab, soweit Komponenten auf der Anlage eingesetzt werden, die nicht im Hause GENIUS hergestellt werden.
- Bei der Instandhaltung sollten ausschließlich Originalteile der Firma GENIUS verwendet werden.
- Auf den Komponenten, die Teil des Automationssystems sind, sollten keine Veränderungen vorgenommen werden.
- Der Installateur sollte alle Informationen hinsichtlich des manuellen Betriebs des Systems in Notfällen liefern und dem Betreiber der Anlage das Anleitungsbuch, das dem Produkt beigelegt ist, übergeben.
- Weder Kinder noch Erwachsene sollten sich während des Betriebs in der unmittelbaren Nähe der Automatik aufhalten.
- Die Anwendung darf nicht von Kindern, von Personen mit verminderter körperlicher, geistiger, sensorieller Fähigkeit oder Personen ohne Erfahrungen oder der erforderlichen Ausbildung verwendet werden.
- Die Funksteuerungen und alle anderen Impulsgeber sollten außerhalb der Reichweite von Kindern aufbewahrt werden, um ein versehentliches Aktivieren der Automatik zu vermeiden.
- Der Durchgang oder die Durchfahrt zwischen den Flügeln darf lediglich bei vollständig geöffnetem Tor erfolgen.
- Der Benutzer darf direkt keine Versuche für Reparaturen oder Arbeiten vornehmen und hat sich ausschließlich an qualifiziertes Fachpersonal GENIUS oder an Kundendienzzentren GENIUS zu wenden.
- Alle Vorgehensweisen, die nicht ausdrücklich in der vorliegenden Anleitung vorgesehen sind, sind nicht zulässig

NEDERLANDS

WAARSCHUWINGEN VOOR DE INSTALLATEUR

ALGEMENE VEILIGHEIDSVOORSCHRIFTEN

LET OP! Het is belangrijk voor de veiligheid dat deze hele instructie zorgvuldig wordt opgevolgd. Een onjuiste installatie of foutief gebruik van het product kunnen ernstig persoonlijk letsel veroorzaken.



LET OP! Het is belangrijk voor de veiligheid dat deze hele instructie zorgvuldig wordt opgevolgd. Een onjuiste installatie of foutief gebruik van het product kunnen ernstig persoonlijk letsel veroorzaken.

- Lees de instructies aandachtig door alvorens te beginnen met de installatie van het product.
- De verpakkingsmaterialen (plastic, polystyreen, enz.) mogen niet binnen het bereik van kinderen worden gelaten, want zij vormen een mogelijk bron van gevaar.
- Bewaar de instructies voor raadpleging in de toekomst.
- Dit product is uitsluitend ontworpen en gebouwd voor het doel dat in deze documentatie wordt aangegeven. Elk ander gebruik, dat niet uitdrukkelijk wordt vermeld, zou het product kunnen beschadigen en/of een bron van gevaar kunnen vormen.
- GENIUS aanvaardt geen enkele aansprakelijkheid voor schade die ontstaat uit oneigenlijk gebruik of ander gebruik dan waarvoor het automatische systeem is bedoeld.
- Installeer het apparaat niet in een explosiegevaarlijke omgeving: de aanwezigheid van ontvlambare gassen of dampen vormt een ernstig gevaar voor de veiligheid.
- De mechanische bouwelementen moeten in overeenstemming zijn met de bepalingen van de normen EN 12604 en EN 12605.
- Voor niet-EEG landen moeten, om een goed veiligheidsniveau te bereiken, behalve de nationale voorschriften ook de bovenstaande normen in acht worden genomen.
- GENIUS is niet aansprakelijk als de regels der goede techniek niet in acht genomen zijn bij de bouw van het sluitwerk dat gemotoriseerd moet worden, noch voor vervormingen die zouden kunnen ontstaan bij het gebruik.
- De installatie dient te geschieden in overeenstemming met de normen EN 12453 en EN 12445. Het veiligheidsniveau van het automatische systeem moet C+D zijn.
- Alvorens ingrepen te gaan verrichten op de installatie moet de elektrische voeding worden weggenomen en moeten de batterijen worden afgekoppeld.
- Zorg op het voedingsnet van het automatische systeem voor een meerpolige schakelaar met een opening tussen de contacten van 3 mm of meer. Het wordt geadviseerd een magnetothermische schakelaar van 6A te gebruiken met meerpolige onderbreking.
- Controleer of er bovenstroms van de installatie een differentiëlschakelaar is geplaatst met een limiet van 0,03 A.
- Controleer of de aardingsinstallatie vakkundig is aangelegd en sluit er de metalen delen van het sluitstelsel op aan.
- Het automatische systeem beschikt over een intrinsieke beveiliging tegen inklemming, bestaande uit een controle van het koppel. De inschakellimiet hiervan dient echter te worden gecontroleerd volgens de bepalingen van de normen die worden vermeld onder punt 10.
- De veiligheidsvoorzieningen (norm EN 12978) maken het mogelijk eventuele gevarelijke gebieden te beschermen tegen Mechanische gevaren door beweging, zoals bijvoorbeeld inklemming, meesleuren of amputatie.
- Het wordt voor elke installatie geadviseerd minstens één lichtsignaal te gebruiken alsook een waarschuwingsbord dat goed op de constructie van het hang- en sluitwerk dient te worden bevestigd, afgezien nog van de voorzieningen die genoemd zijn onder punt "16".
- GENIUS aanvaardt geen enkele aansprakelijkheid voor wat betreft de veiligheid en de goede werking van het automatische systeem, als er in de installatie gebruik gemaakt wordt van componenten die niet door GENIUS zijn geproduceerd.
- Gebruik voor het onderhoud uitsluitend originele GENIUS-onderdelen.
- Verricht geen wijzigingen op componenten die deel uitmaken van het automatische systeem.
- De installateur dient alle informatie te verstrekken over de handbediening van het systeem in noodgevallen, en moet de gebruiker van de installatie het bij het product geleverde boekje met aanwijzingen overhandigen.
- De toepassing mag niet worden gebruikt door kinderen, personen met lichamelijke, geestelijke en sensoriële beperkingen, of door personen zonder ervaring of de benodigde training.
- Sta het niet toe dat kinderen of volwassenen zich ophouden in de buurt van het product terwijl dit in werking is.
- Houd radio-afstandsbedieningen of alle andere impulsgevers buiten het bereik van kinderen, om te voorkomen dat het automatische systeem onopzetbaar kan worden aangedreven.
- Ga alleen tussen de vleugels door als het hek helemaal geopend is.
- De gebruiker mag zelf geen pogingen ondernemen tot reparaties of andere directe ingrepen, en dient zich uitsluitend te wenden tot gekwalificeerd en geautoriseerd GENIUS-personeel of een erkend GENIUS-servicecentrum.
- Alles wat niet uitdrukkelijk in deze instructies wordt aangegeven, is niet toegestaan

INDEX

ENGLISH

1. DESCRIPTION	page.7
2. DIMENSIONS	page.7
3. TECHNICAL SPECIFICATIONS	page.8
4. INSTALLATION	page.8
4.1. Electrical set-up (standard system)	page.8
4.2. Preliminary checks	page.8
4.3. Installation dimensions	page.8
4.4. Installing the operators	page.9
4.5. Operator wiring	page.10
5. TESTING THE AUTOMATED SYSTEM	page.10
6. MANUAL OPERATION	page.10
6.1. Restoring normal operation	page.10
7. MAINTENANCE	page.10
8. REPAIRS	page.10
9. AVAILABLE ACCESSORIES	page.10
10. SPECIAL APPLICATIONS	page.10

CE DECLARATION OF CONFORMITY FOR MACHINES (DIRECTIVE 98/37/EC)

Manufacturer: GENIUS S.p.A.

Address: Via Padre Elzi, 32 - 24050 - Grassobbio- Bergamo - ITALY

Declares that: Operator model **MISTRAL ENV** powered on 230Vac

- is built to be integrated into a machine or to be assembled with other machinery to create a machine under the provisions of Directive 98/37/EC;
- conforms to the essential safety requirements of the following EEC directives:
 - 2006/95/EC Low Voltage directive.
 - 2004/108/EC Electromagnetic Compatibility directive.
- and also declares that it is prohibited to put into service the machinery until the machine in which it will be integrated or of which it will become a component has been identified and declared as conforming to the conditions of Directive 89/392/EEC and subsequent modifications assimilated in Italian National legislation under Presidential decree No.459 of 24 July 1996.

Grassobbio, 12.06.2009



Managing Director
D. Gianantoni

Notes on reading the instruction

Read this installation manual to the full before you begin installing the product.

The symbol  indicates notes that are important for the safety of persons and for the good condition of the automated system.

The symbol  draws your attention to the notes on the characteristics and operation of the product.

AUTOMATED SYSTEM MISTRAL ENV

1. DESCRIPTION

The **MISTRAL ENV** automated system for swing-leaf gates is an electro-mechanical operator transmitting motion to the leaf via a worm screw system. A convenient and reliable release with customized key makes it possible to move the leaf by hand in the event of malfunction or power failure. The **MISTRAL ENV** automation can ensure, if properly installed and adjusted, an installation complies with current safety standards. The management of a virtual encoder further enhances the security level of automation.

- The correct operation and the declared specifications only apply if GENIUS accessories and safety devices are used.
- ⚠ • As no mechanical clutch device is fitted, a control unit with adjustable electronic clutch is required to ensure the necessary anti-crushing safety.
- The **MISTRAL ENV** automated system was designed and built for controlling vehicle access. Avoid any other use whatever.
- The opening of doors and gates on emergency escape routes cannot be automated.

Pos.	Description	Pos.	Description
①	Gearmotor	⑤	Rear bracket
②	Release device	⑥	Rear fitting
③	Rod	⑦	Rear fitting pin
④	Front bracket	⑧	Terminal board cover

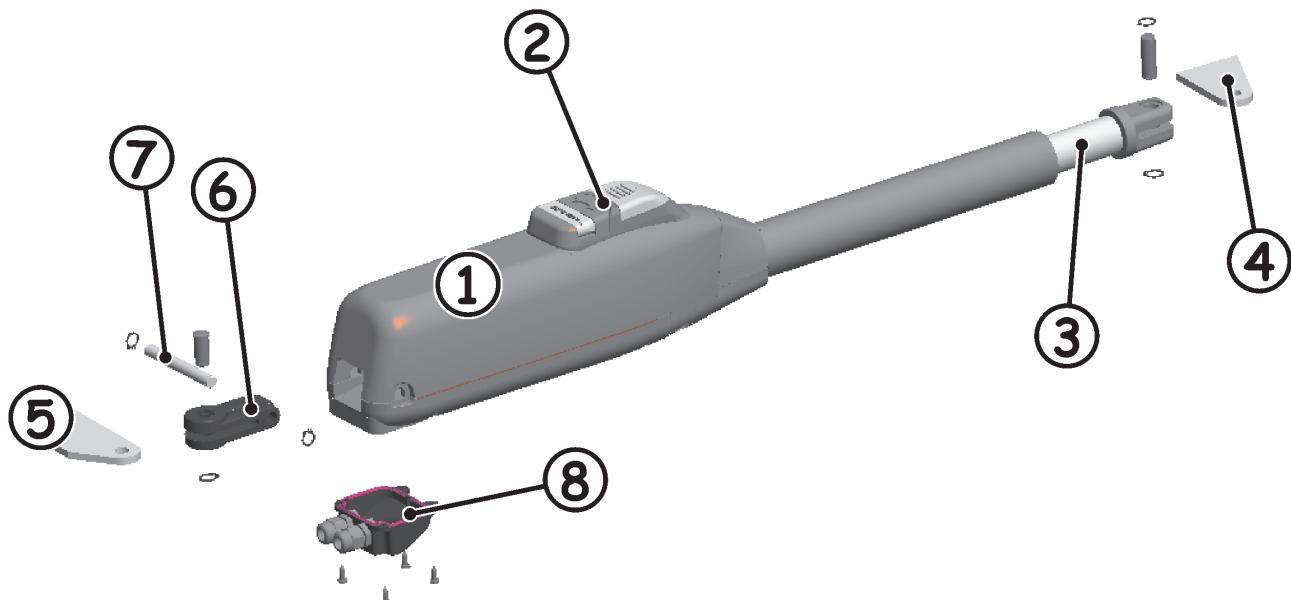


Fig. 1

2. DIMENSIONS

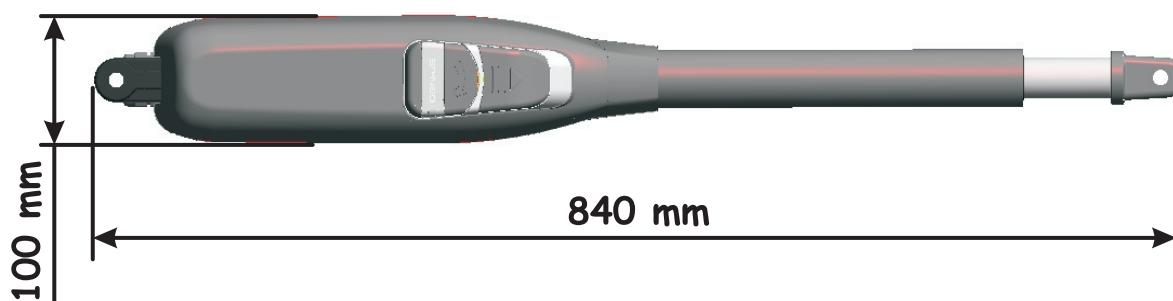
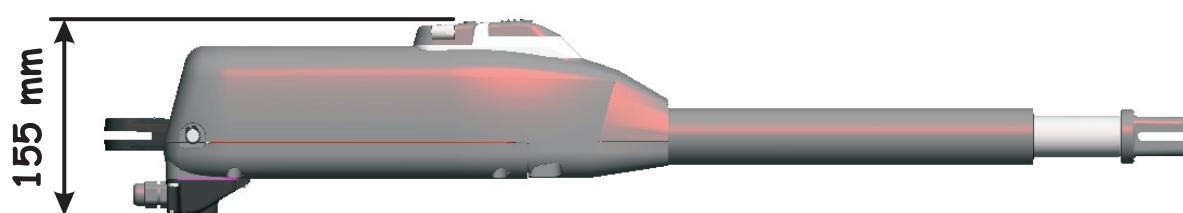


Fig. 2

3. TECHNICAL SPECIFICATIONS

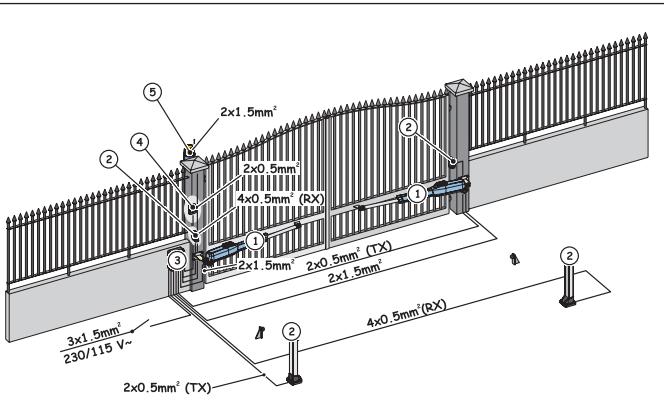
TECHNICAL SPECIFICATIONS	MIHSTRAL ENV
Power supply	24 Vdc
Motor nominal power (W)	35
Thrust (daN)	150
Capacitor (μ F)	/
Travel (mm)	300
Rod extension speed (cm/sec)	From 1.6 to 2.1
Leaf max. (m) ^①	3
Use frequency at 20°C	80 cycles/day
Consecutive cycles ^②	30
Operating ambient temperature (°C)	-20 +55
Operator weight (kg)	7.5
Operator dimensions	See fig. 2
Protection class	IP 54

^① The value indicated refers to a leaf with an electric lock. Without the use of the electric lock, the max. leaf dimension is 2.5 m.

^② The maximum number of consecutive cycles is limited by software.

4. INSTALLATION

4.1. ELECTRICAL SET-UP (STANDARD SYSTEM)



Pos.	Description
①	Operators
②	Photocells
③	Control board
④	Key push button
⑤	Flashing lamp

Fig. 3



- Use suitable tubes and/or hoses to lay electric cables
- To avoid any kind of interference always separate low-voltage accessories and control cables from 230/115 V~ power supply cables using separate sheaths.

4.2. PRELIMINARY CHECKS

To ensure a correct operation of the automated system, make sure the following requirements are observed as for the gate structure (existing or to be created):

- the mechanical parts must conform to the provisions of Standards EN 12604 and EN 12605.
- leaf length in compliance with the operator specifications.
- sturdy and stiff structure of the leaves, suitable for automation.
- regular and uniform movement of the leaves, without any friction and dragging during their entire opening.
- with the reversible motors to verify that the gate does not move alone.
- stiff hinges in good conditions.
- presence of both opening and closing mechanical limit stops.
- presence of an efficient earthing for electrical connection of the operator.

Perform any necessary metalwork job before installing the automated system.

The condition of the gate structure directly affects the reliability and safety of the automated system.

4.3. INSTALLATION DIMENSIONS

Determine the fitting position of the operator with reference to Fig. 4.

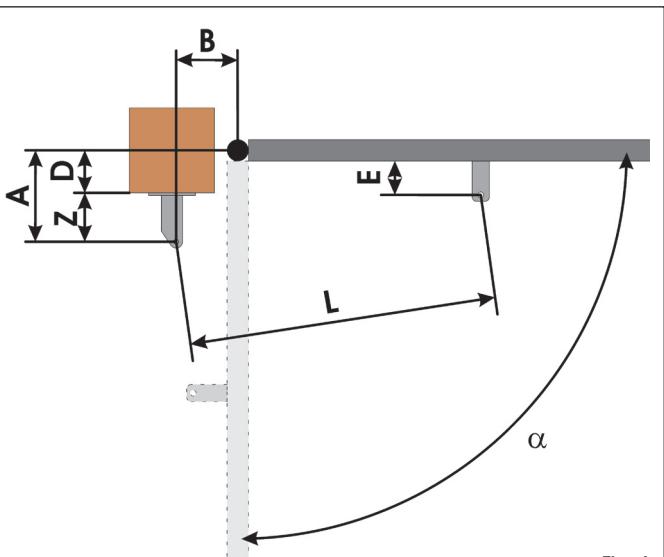


Fig. 4

Model	α	A	B	C ^①	D ^②	Z ^③	L	E ^④
MISTRAL ENV	90°	145	145	290	85	60	1110	45
	110°	120	135	295	60			

^① operator useful travel

^② max. dimension

^③ min. dimension

Check with care if the distance between the open leaf and any obstacles (walls, fences etc.) is higher than the operator dimensions.

4.3.1. GENERAL RULES TO DETERMINE THE INSTALLATION DIMENSIONS

- To obtain 90° leaf openings : $A+B=C$
- To obtain leaf openings exceeding 90° : $A+B < C$
- Smaller A and B dimensions determine higher peripheral speed of the leaf.
- Limit the difference between A and B dimension within 4 cm: higher differences cause great speed variations during the gate opening and closing movement.
- Keep a Z dimension in such a way that the operator does not strike the pillar.

If the pillar dimensions or the hinge position do not allow the installation of the operator, a niche on the pillar, as shown in Fig. 5, should be created in order to maintain the A dimension as determined. The niche should be dimensioned in such a way to enable easy installation, operator rotation and operation of the release device.

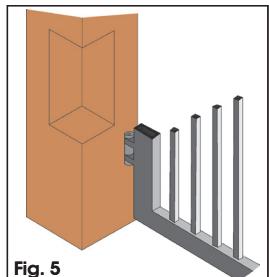


Fig. 5

4.4. INSTALLING THE OPERATORS

- Fix the rear bracket in the position determined before. In the event of iron pillar carefully weld the bracket directly on the pillar (Fig. 6). In the event of masonry pillar, use the suitable plate (optional) for the fixing to screw (Fig. 7) by making use of suitable fastening systems. Then carefully weld the bracket to the plate.

 During the fastening operations, check if the bracket is perfectly horizontal by means of a level.

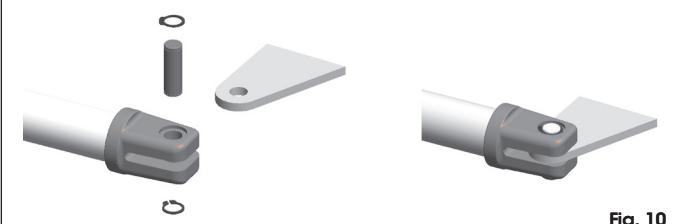


Fig. 10

- Fix the operator to the rear bracket by means of the supplied pins as shown in Fig. 11.

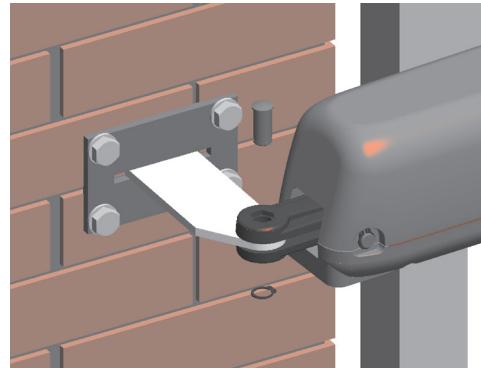


Fig. 11

- Close the leaf and, keeping the operator in a perfect horizontal position, determine the fastening point of the front bracket (Fig. 12).

- Temporarily fix the front bracket with two welding spots (Fig. 12).

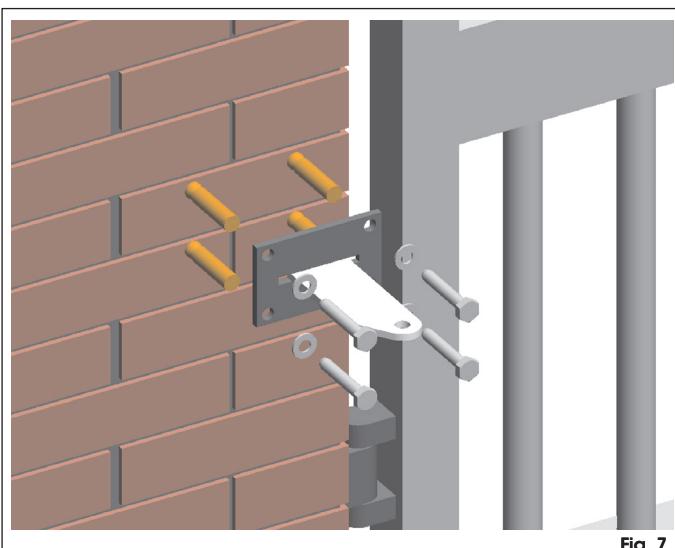
 **If the gate structure does not allow a fix bracket fastening it is necessary to create a sturdy supporting base in the gate structure.**

- Release the operator (see paragraph 6) and manually check if the gate can completely open without hindrances and stop at the mechanical travel stops as well as if the leaf moves regularly without any friction.

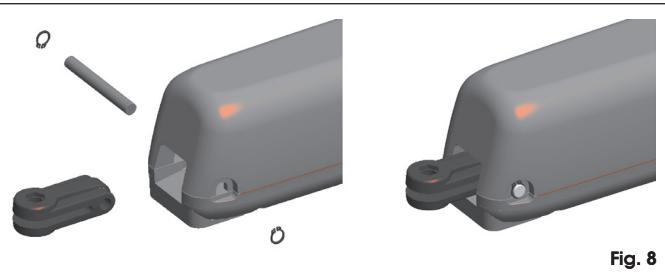
- Carry out the necessary corrective measures and repeat from point 8.

- Temporarily release the operator from the front bracket and weld the bracket definitively.

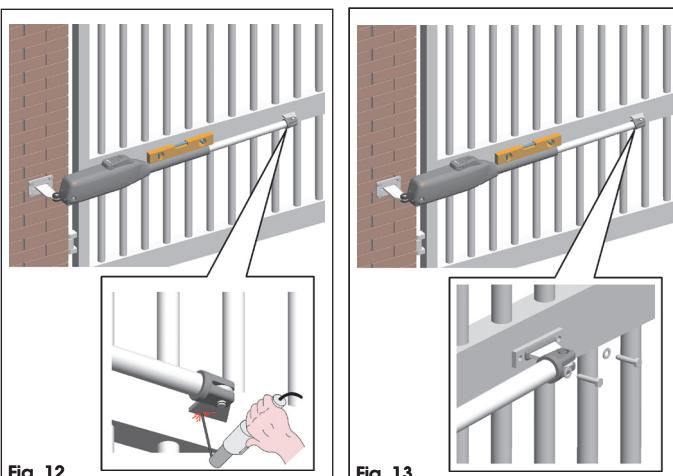
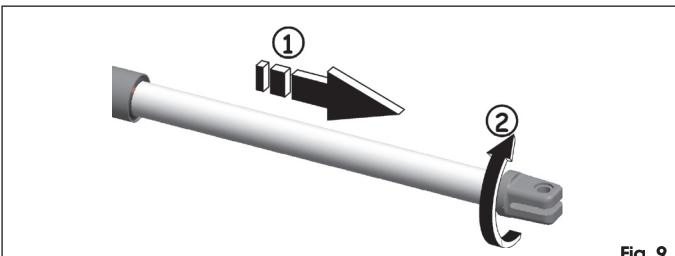
 **If the leaf structure does not allow a bracket welding, the suitable bracket to screw (optional) can be used together with suitable fastening systems (Fig. 13). Then carry out the same operations as prescribed for the bracket to weld.**



- Assemble the rear fitting to the operator as shown in Fig. 8.



- Set the operator for manual operation (see paragraph 6).
- Completely extend the rod till it reaches the limit stop, fig. 9 ref. ①.
- Lock the operator again (see paragraph 6.1).
- Turn the rod clockwise half a revolution / a revolution, Fig. 9 ref. ②.
- Assemble the front bracket as shown in Fig. 10.



 We recommend to grease all the fastening pins of the fittings.

4.5. OPERATOR WIRING

A terminal board for connecting the motor is housed at the bottom of the operator.

 **The supplied cable must be used for the mobile section connections or, alternatively, a cable of the same diameter suitable for mobile installation from the outside.**

Motor wiring procedure:

- Free the pre-drilled hole on the supplied cover, Fig. 14.
- Fit the supplied cable grippers.



Fig. 14

3. Connect the motor by referring to the table of Fig. 15.

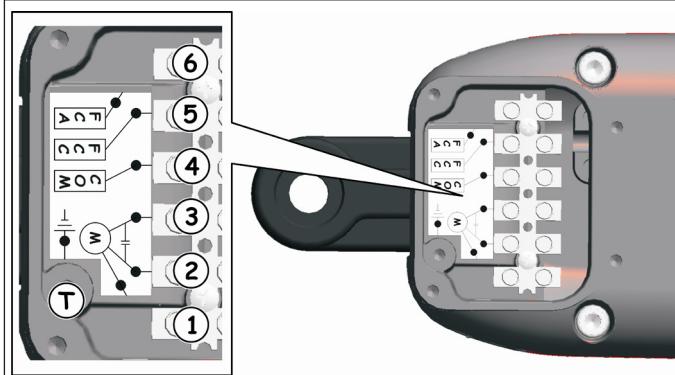


Fig. 15

Pos.	Colour	Description
①	Blue	Phase 1
②	Not used.	—
③	Brown	Phase 2
④	Not used.	—
⑤	Not used.	—
⑥	Not used.	—
T	Not used	—

4. Close the cover with the four supplied screws, Fig. 16.

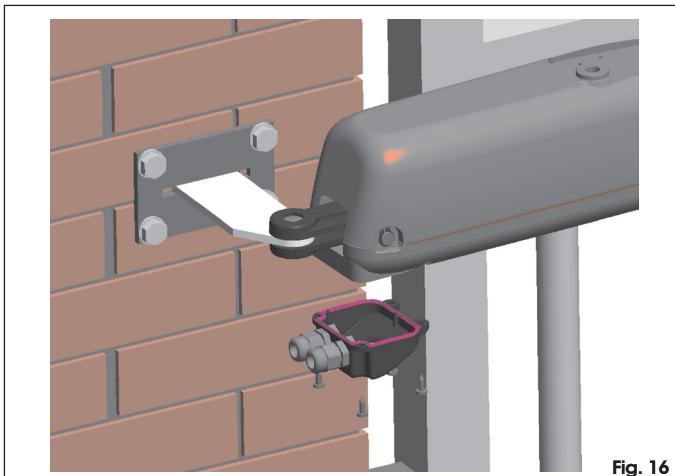


Fig. 16

5. TESTING THE AUTOMATED SYSTEM

- Connect the control unit according to the relevant instructions.
- Power up the system and check the status of the LEDs as indicated in the instructions for the unit.
- Program the control unit according to your requirements.
- Carefully check operating efficiency of the automated system and of all accessories connected to it, paying special attention to the safety devices.
- Hand the "User's Guide" to the final user together with the Maintenance sheet.
- Explain correct operation and use of the automated system to the user.
- Indicate the potentially dangerous areas of the automated system to the user.

⚠ The file "Guide for the User" is in the middle of this book as a removable file.

6. MANUAL OPERATION

If the automated system needs to be moved manually due to a power lack or to an operator malfunction, proceed as follows:

1. Cut power by means of the safety circuit breaker (even in the event of a power lack).
2. Slide the protective cap, Fig. 17 - ①.
3. Insert the key and turn it 90°, Fig. 17 - ②.
4. Lift the control lever, Fig. 17 - ③.
5. To release the operator turn 180° the control lever to the direction indicated by the arrow on the release system, Fig. 17 - ④.
6. Open and close the leaf manually.

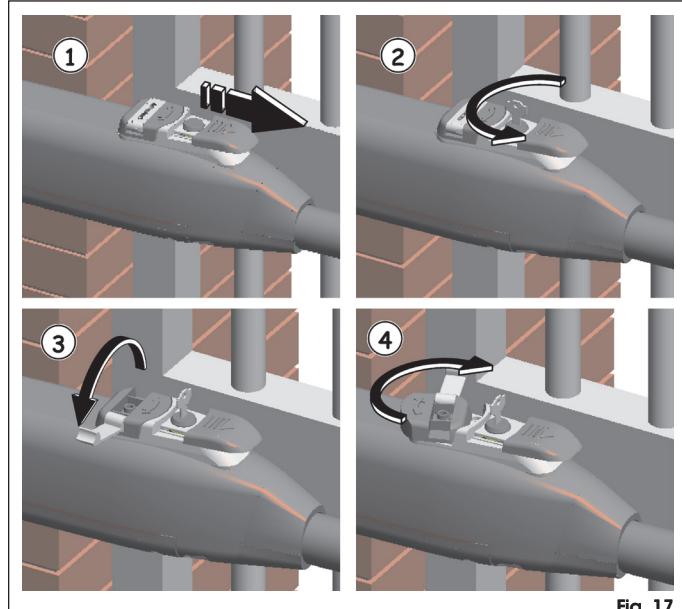


Fig. 17

⚠ To hold the operator in manual operation the release device should be left in its current positions and the system should be without power.

6.1. RESTORING NORMAL OPERATION

To restore normal operating conditions, proceed as follows:

1. Make sure that the system is not powered.
2. Turn the release system 180° in the opposite direction of the arrow.
3. Turn 90° the release key and remove it.
4. Close the control lever and the protection cover.
5. Make sure that the gate cannot be moved manually.
6. Power up the system and perform some movements in order to check the correct restoring of every function of the automated system.

7. MAINTENANCE

To ensure trouble-free operation and a constant safety level, an overall check of the system should be carried out every 6 months. A form for recording operations has been included in the "User's Guide" booklet.

8. REPAIRS

The User must not in any way attempt to repair or to take direct action and must solely contact qualified GENIUS personnel or GENIUS service centres.

9. AVAILABLE ACCESSORIES

For accessories, see the GENIUS catalogue.

10. SPECIAL APPLICATIONS

Applications other than those in this manual are EXPRESSLY PROHIBITED.

⚠ Read the instructions carefully before using the product and store them for future use

GENERAL SAFETY REGULATIONS

If correctly installed and used, the **MISTRAL ENV** automated system will ensure a high degree of safety. Some simple rules on behaviour can prevent accidental trouble:

- Do not stand near the automated system, and do not allow children, persons or things to do so, especially when it is operating.
- Keep radio-controls, or any other pulse generators that could involuntarily activate the automated system, well away from children.
- Do not allow children to play with the automated system.
- Do not willingly obstruct gate movement.
- Prevent any branches or shrubs from interfering with gate movement.
- Keep the indicator-lights efficient and easy to see.
- Do not attempt to activate the gate by hand unless you have released it.
- In the event of malfunctions, release the gate to allow access and wait for qualified technical personnel to do the necessary work.
- When you have set manual operation mode, cut power to the system before restoring normal operation.
- Do not in any way modify the components of the automated system.
- Do not attempt any kind of repair of direct action whatever and contact qualified personnel only.
- At least every six months: arrange a check by qualified personnel of the automated system, safety devices and earth connection.

DESCRIPTION

The **MISTRAL ENV** automated system for swing-leaf gates is an electro-mechanical operator transmitting motion to the leaf via a worm screw system.

A convenient and reliable release with customized key makes it possible to move the leaf by hand in the event of malfunction or power failure.

The **MISTRAL ENV** automation can ensure, if properly installed and adjusted, an installation complies with current safety standards. The management of a virtual encoder further enhances the security level of automation. Thanks to the virtual encoder, the automated system is able to check the gate position continuously and to stop its movement in the event of obstacle detection.

For details on sliding gate behaviour in different function logics, consult the installation Technician.

Automated systems include safety devices (photocells) that prevent the gate from closing when there is an obstacle in the area they protect.

The warning-light indicates that the gate is currently moving.

MANUAL OPERATION

If the automated system needs to be moved manually due to a power lack or to an operator malfunction, proceed as follows:

1. Cut power by means of the safety circuit breaker (even in the event of a power lack).
2. Slide the protective cap, Fig. 1 - ①.
3. Insert the key and turn it 90°, Fig. 1 - ②.
4. Lift the control lever, Fig. 1 - ③.
5. To release the operator turn 180° the control lever to the direction indicated by the arrow on the release system, Fig. 1 - ④.
6. Open and close the leaf manually.

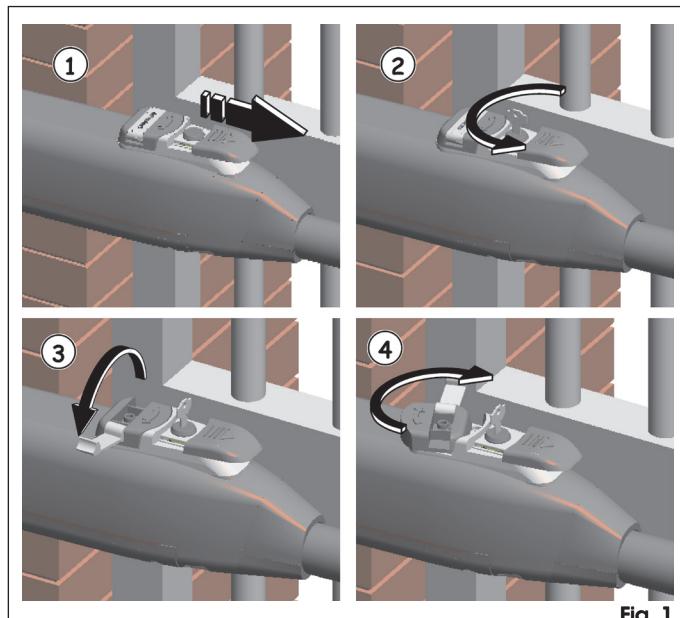


Fig. 1

⚠ To hold the operator in manual operation the release device should be left in its current positions and the system should be without power.

RESTORING NORMAL OPERATION

To restore normal operating conditions, proceed as follows:

1. Make sure that the system is not powered.
2. Turn the release system 180° in the opposite direction of the arrow.
3. Turn 90° the release key and remove it.
4. Close the control lever and the protection cover.
5. Make sure that the gate cannot be moved manually.
6. Power up the system and perform some movements in order to check the correct restoring of every function of the automated system.

MAINTENANCE

To ensure trouble-free operation and a constant safety level, an overall check of the system should be carried out every 6 months. A form for recording operations has been included in the "User's Guide" booklet.

REPAIRS

The User must not in any way attempt to repair or to take direct action and must solely contact qualified GENIUS personnel or GENIUS service centres.

AVAILABLE ACCESSORIES

For accessories, see the GENIUS catalogue.

Le descrizioni e le illustrazioni del presente manuale non sono impegnative. GENIUS si riserva il diritto, lasciando inalterate le caratteristiche essenziali dell'apparecchiatura, di apportare in qualunque momento e senza impegnarsi ad aggiornare la presente pubblicazione, le modifiche che essa ritiene convenienti per miglioramenti tecnici o per qualsiasi altra esigenza di carattere costruttivo o commerciale.

The descriptions and illustrations contained in the present manual are not binding. GENIUS reserves the right, while leaving the main features of the equipment unaltered, to undertake any modifications to those necessary for either technical or commercial reasons, at any time and without revising the present publication.

Les descriptions et les illustrations du présent manuel sont fournies à titre indicatif. GENIUS se réserve le droit d'apporter à tout moment les modifications qu'elle jugera utiles sur ce produit tout en conservant les caractéristiques essentielles, sans devoir pour autant mettre à jour cette publication.

Las descripciones y las ilustraciones de este manual no comportan compromiso alguno. GENIUS se reserva el derecho, dejando inmutadas las características esenciales de los aparatos, de aportar, en cualquier momento y sin comprometerse a poner al día la presente publicación, todas las modificaciones que considere oportunas para el perfeccionamiento técnico o para cualquier otro tipo de exigencia de carácter constructivo o comercial.

Die Beschreibungen und Abbildungen in vorliegendem Handbuch sind unverbindlich. GENIUS behält sich das Recht vor, ohne die wesentlichen Eigenschaften dieses Gerätes zu verändern und ohne Verbindlichkeiten in Bezug auf die Neufassung der vorliegenden Anleitungen, technisch bzw. konstruktiv / kommerziell bedingte Verbesserungen vorzunehmen.

De beschrijvingen in deze handleiding zijn niet bindend. GENIUS behoudt zich het recht voor op elk willekeurig moment de veranderingen aan te brengen die het bedrijf nuttig acht met het oog op technische verbeteringen of alle mogelijke andere productie- of commerciële eisen, waarbij de fundamentele eigenschappen van het apparaat gehandhaafd blijven, zonder zich daardoor te verplichten deze publicatie bij te werken.

Timbro rivenditore: / Distributor's stamp: / Timbre de l'agent: / Sello del revendedor: / Fachhändlerstempel: / Stempel dealer:

GENIUS®

Via Padre Elzi, 32
24050 - Grassobbio
BERGAMO-ITALY
tel. 0039.035.4242511
fax. 0039.035.4242600
info@geniusg.com
www.geniusg.com



0005810825 Rev.1