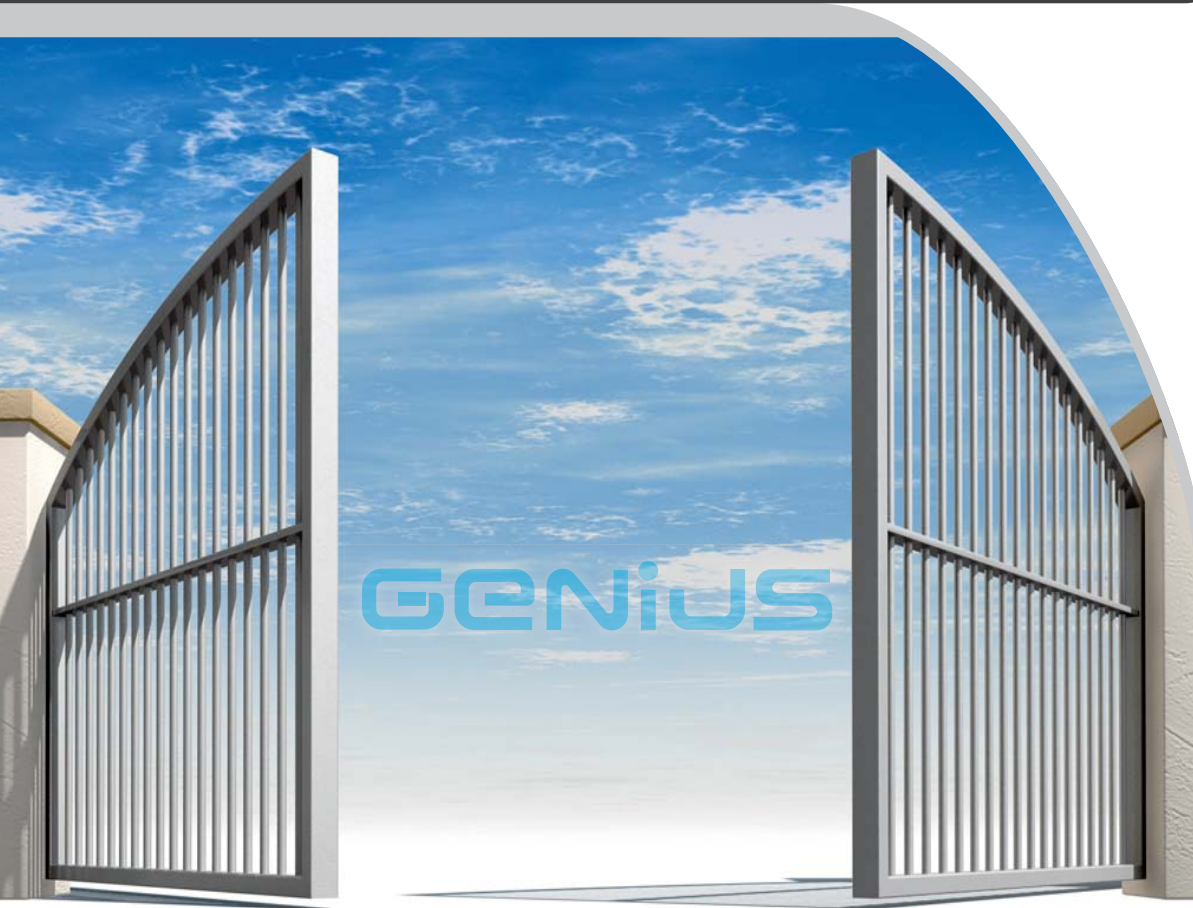


Automation Systems



Automation systems
for gates doors and barriers



WELCOME TO GENIUS

GENIUS. A STRONG GLOBAL BRAND

Genius has been established over 20 years and is part of the FAAC group that leads the world in the supply of automation systems for gates, doors and barriers. The UK business is based in Basingstoke from where distribution, training, sales and technical support are supplied to the marketplace.

A wide range of products are available to suit both residential and commercial applications and the company's sales team will assist in making specifications to ensure complete satisfaction with the Genius experience. Genius is an innovative company with quality products delivering real value for money to the market.

TRAINING

We can offer training for electricians on our products at our HQ in Basingstoke. We are also supporters of the Door and Hardware Federation. The DHF is the only unified body representing the interests of industrial & garage doors, metal & timber doorsets, powered gates and the building hardware sectors.

The courses are open to all those personnel responsible for the safety of automatically controlled powered gates.

OUR TARGET IS YOUR SATISFACTION.



Automated systems for
SWING GATES



Automated systems for
SLIDING GATES



Automated systems for
GARAGE DOORS and SHUTTERS



Automated systems for
INDUSTRIAL GATES



Automated systems for
BARRIERS

SAFETY AND CERTIFICATION ON LINE:

www.geniushgates.co.uk

For Genius, safety is a continuous commitment. It is with this value in mind that we always offer innovative, individually tested products that are easy to install yet above all suitable for achieving certifiable automation in compliance with European standards.

There is a special "Safety" section on the Genius site where you can download all documentation related to the subject for free.

PRODUCT INDEX



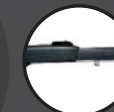
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Trigon 02



TRIGON is an operator that is simple and fast to install, a cost effective choice as often no modifications are required to the existing load bearing structure. Optional electrical limit switches are available for controlling slow down or stops. Suitable for applications up to 3m with leaf locking, up to 2m without an electric lock.

Technical Specifications	Trigon 02	Trigon 02 -24
Power supply voltage (Vac)	230Vac	230Vac
Electric motor voltage	230Vac	24Vdc
Power (W)	280	40
Capacitor (uF)	8	-
Max torque (Nm)	250	200
Leaf opening time at 90° (sec) ⁽¹⁾	18	18
Max leaf length (m) ⁽¹⁾⁽²⁾	3	3
Indicative hourly cycles at 20°C	≥30%	≥100%
Operator weight (Kg)	11.5	11.5
Protection class	IP44	IP44

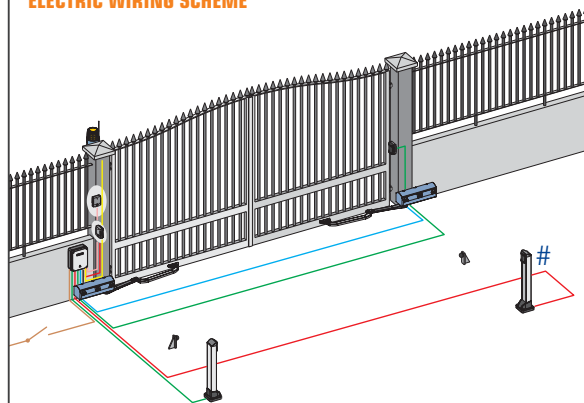
(1) Opening time and max leaf dimensions calculated for correctly executed installations at the dimensions indicated in the installation instructions and without slow-downs.
 (2) Over 2m, an electric lock is essential to ensure leaf locking

KIT INCLUDES

- 2 x TRIGON Electro-mechanical operators
- 1 x BRAIN control board
- 1 x Box for control board
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 2 x Installation accessories
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

* For 24Vdc motor, use cable of 2x2,5mm² - max. distance between motor and the control board 10m

Compas



BUS TECHNOLOGY **E-WAY**
 VIRTUAL PATENTED ENCODER



COMPAS 24 is ideal for applications on narrow gate piers. It is available in master and slave versions. The Compas 24C has an integrated control board and the standard Compas 24 is the slave. Built in mechanical stops make it simple to install.
 Field of application: up to 2.5m with leaf locking up to 2m even without an electric lock.

Technical Specifications	Compas 24C	Compas 24
Power supply voltage (Vac)	230Vac	
Electric motor voltage	24Vdc	
Power (W)	140	120
Torque Max (Nm)	250	
Max angular speed (°/sec)	13	
Max leaf length (m) ⁽²⁾	2.5	
Max leaf weight (kg) ⁽¹⁾	310	
Type and frequency of use at 20°C	80%	
Max continuous cycles	30	
Operating ambient temperature (°C)	-20 to +55°C	
Operator weight (Kg)	8.7	7
Protection class	IP44	

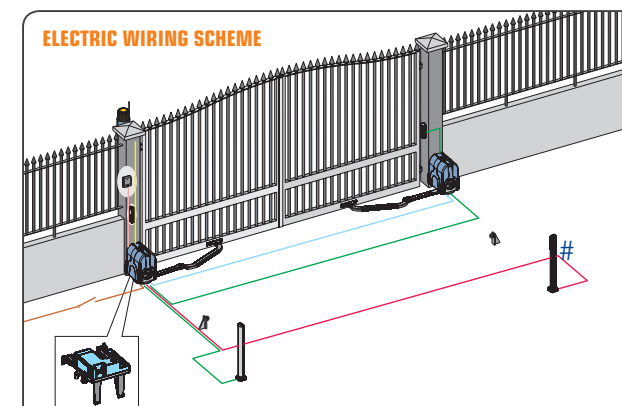
(1) The max weight of the leaf depends on length: max 200 Kg for 2.5m, max 310 Kg for 1m.
 (2) Over 2m an electric lock is essential to ensure leaf locking.

KIT INCLUDES

- 1 x COMPAS 24C Electro-mechanical operator (with integrated control board)
- 1 x COMPAS 24 Electro-mechanical operator
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VEGA-BUS photocell
- 2 x Installation accessories
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor	2x2,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

Mistral



Technical Specifications	Mistral 300	Mistral 400	Mistral 324	Mistral 424
Power supply voltage (Vac)	230Vac		230Vac	
Electric motor voltage	230Vac		24Vdc	
Power (W)	300		70	
Capacitor (uF)	8		-	
Thrust (daN)	300		280	
Max leaf length (m)	3 ⁽¹⁾	4 ⁽²⁾	3 ⁽¹⁾	4 ⁽²⁾
Indicative hourly cycles at 20°C	≥30%	≥25%	≥100%	≥75%
Operator weight (Kg)	7.8	8	7.8	8
Protection class	IP54		IP54	

MISTRAL is an electro-mechanical operator with in-line axis thrust. With many different versions available there are options to suit a variety of requirements. It has the option of electric limit switches in both opening and closing to manage slowdown and secure operation. Complete range with 300mm and 400mm rod travel versions, for gates up to 4m wide.

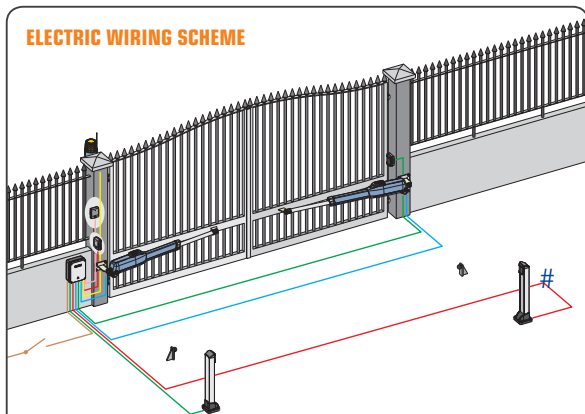
KIT INCLUDES

- 2 x MISTRAL electro-mechanical operators
- 1 x BRAIN control board
- 1 x Box for control board
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 2 x Installation accessories
- 1 x Installation instructions



- (1) Over 2,50 m, an electric lock is essential to ensure leaf locking
- (2) Over 3,00 m, an electric lock is essential to ensure leaf locking

ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

* For 24Vdc motor, use cable of 2x2,5mm² - max. distance between motor and the control board 10m

Sirocco



SIROCCO is an electro-mechanical operator enabling easy installation. All versions have both opening and closing mechanical stops. With options of low voltage 24V electrical operators, and limit switch versions available, they suit most requirements for gates up to 2.5m. The mechanical stop at opening and closing makes installation possible without physical stops. Available with 24V versions for increased use frequency.

Technical Specifications	250	250LS	2524	2524LS
Power supply voltage (Vac)	230Vac		230Vac	
Electric motor voltage	230Vac		24Vdc	
Power (W)	250		70	
Current (A)	1.1		3	
Heat protection (°C)	140		-	
Capacitor (uF)	6.3		-	
Thrust (daN)	200		250	
Travel (mm)	300(350mm without mech stops)			
Rod exit speed (cm/sec)	1.6		1.6	
Max leaf length (m)	2.5*		2.5*	
Type and frequency of use at 20°C	S3-30%	S3-35%	100%	
Indicative hourly cycles at 20°C	≥30		≥100	
Operating ambient temperature	-20°C to +55°C			
Operating weight (Kg)	6.5			
Protection class	IP54			

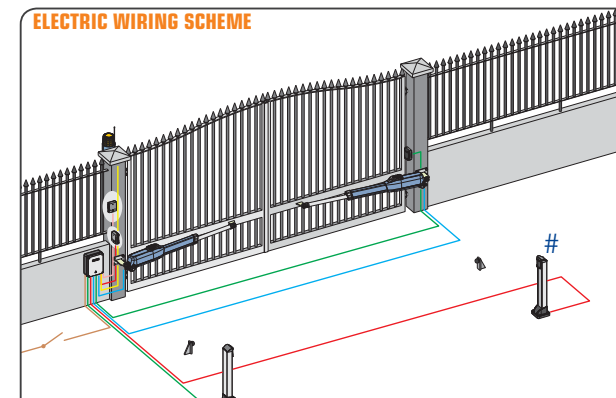
KIT INCLUDES

- 2 x SIROCCO electro-mechanical operators
- 1 x BRAIN control board
- 1 x Box for control board
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 2 x Installation accessories
- 1 x Installation instructions



* Over 1.8m, an electric lock is essential to ensure leaf locking

ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

* For 24Vdc motor, use cable of 2x2,5mm² - max. distance between motor and the control board 10m

G-Bat

G-BAT is a sturdy mechanism with bronze crown and steel screw and guarantees long life to the motor. Available both with right- and left-hand opening; for an installation as close to the hinge as possible without the need for building work. The axial thrust allows opening of gate leaves up to 4 metres. It is available in 230V and 24V versions with a 24V ENV with virtual encoder. 24V versions can be equipped with a battery backup which allows gates to be opened in case of power failure.



Models	300	400	324	424
Power supply voltage	230 Vac		230 Vac	
Electric motor voltage	230 Vac		24 Vdc	
Power (W)	280		70	
Capacitor (uF)	8		-	
Thrust (daN)	350		300	
Max. leaf length (m) ⁽¹⁾	3	4	3	4
Indicative hourly cycles at 20°C	≥30%	≥24%	≥100%	≥75%
Operator weight (Kg)	6.5	7	6.5	7
Protection class	IP54		IP54	

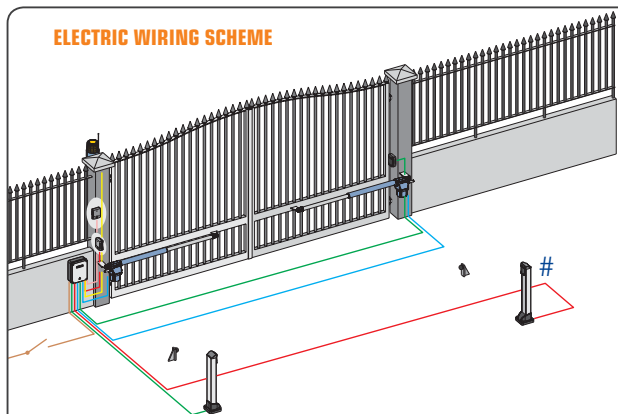
(1) Over 2.5m, an electric lock is essential to ensure leaf locking

KIT INCLUDES

- 1 x G-BAT L/H electro-mechanical operator
- 1 x G-BAT R/H electro-mechanical operator
- 1 x BRAIN control board
- 1 x Box for control board
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 2 x Installation accessories
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

* For 24Vdc motor, use cable of 2x2,5mm² - max. distance between motor and the control board 10m

Roller



ROLLER is an electro-mechanical underground gear motor. It has a patented lever-operated release with lock (as standard), which can be activated both from inside and outside the property. Standard opening angle is up to 110° but accessory options are available for 140° and 180°. Suitable for gate leaves up to 3m and 500 kg max per leaf, with leaf locking, up to 2m without an electric lock.

Models	Roller	Roller 24
Power supply voltage	230 Vac	230 Vac
Electric motor voltage	230 Vac	24 Vdc
Power (W)	380	70
Capacitor (uF)	12.5	-
Max torque (Nm)	330	300
Leaf opening time at 90° sec	18(110°/180°) - 10.5(140°)	18(110°/180°) - 10.5(140°)
Max Leaf (m) ⁽¹⁾⁽²⁾	3.5(110°) - 3(180°) - 2(140°)	3.5(110°) - 3(180°) - 2(140°)
Indicative hourly cycles at 20°C	≥30 (110°/180°) ≥50(140°)	≥100 (110°/180°) ≥170(140°)
Operator weight (Kg)	26.5	26.5
Protection class	IP67	IP67

(1) Opening time and max leaf dimensions calculated for correctly executed installations at the dimensions indicated in the installation instructions and without slow-downs.

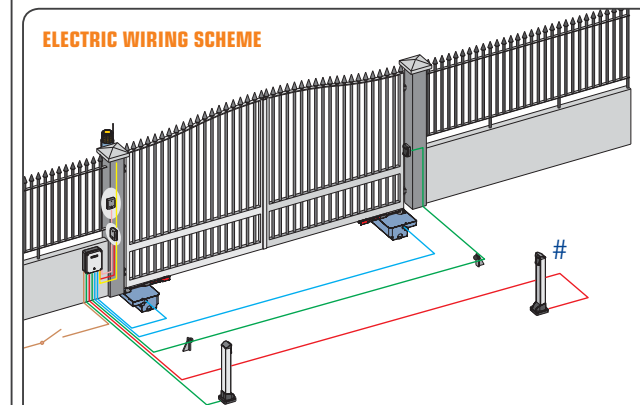
(2) Over 2m, an electric lock is essential to ensure leaf locking

KIT INCLUDES

- 2 x ROLLER electro-mechanical Operator
- 2 x Lever 110°
- 2 x Foundation Box
- 1 x BRAIN control board
- 1 x Box for control board
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

* For 24Vdc motor, use cable of 2x2,5mm² - max. distance between motor and the control board 10m

Diablo

NEW



Diablo is the new 24V slimline underground operator by Genius. Suited to residential sites it can move gate leaves up to 2.5m (with electric lock) It has an opening angle upto 180°. The gearmotor is installed in the ground, therefore doesn't affect the aesthetics of the gate.

Models	Diablo
Power supply voltage	230 Vac
Electric motor voltage	24 Vac
Absorbed Power (W)	140
Max torque (Nm)	200
Nominal torque (Nm)	130
Opening angle (°)	180
Angular speed (°/sec)	6
Max leaf length (m)	2 2.5 (with electronic lock)
Usage type	Residential
Max consecutive cycles ¹	30
Daily cycles ²	50
Max continuous operating time	O.T. 17 min
Protection class	IP67

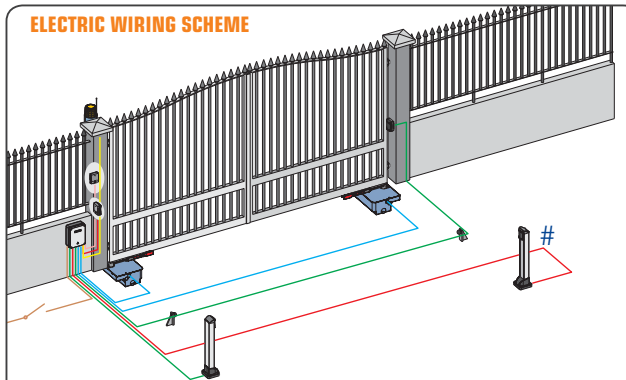
¹. depending on the paired control unit
². Values obtained from laboratory testing

KIT INCLUDES

- 2 x DIABLO electro-mechanical operator
- 2 x Release devices
- 2 x Foundation Box
- 1 x BRAIN control board
- 1 x Box for control board
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²	BUS connections	2x0,5 mm ²
Key-operated selector	2x0,5 mm ²		

Photocells at tips of gates not included in kit but recommended

* For 24Vdc motor; use cable of 2x2,5mm² - max. distance between motor and the control board 10m

Falcon



FALCON is an electro-mechanical gear motor range for heavy sliding gates up to 2000 kg. It has a compact design, which is sturdy, safe and quiet. With a magnetic limit switch and an integrated control board with an easy to use programming display.

Models	Falcon M8	Falcon M14	Falcon M20
Power supply voltage	230 Vac	230 Vac	230 Vac
Electric motor voltage	230 Vac	230 Vac	230 Vac
Power (W)	500	650	800
Capacitor (uF)	12.5	16	20
Max torque (Nm)	24	35	45
Type of pinion gear	Z16 mod 4		
Max gate weight (Kg)	800	1400	2000
Frequency of use at 20°C	S3 - 30%	S3 - 40%	
Operator weight (Kg)	11	14	15
Protection class	IP44		

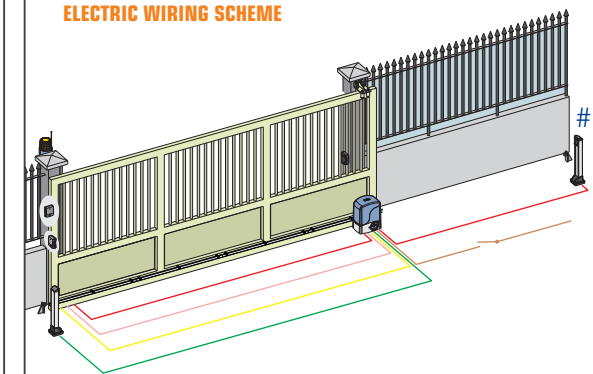
(1) Number of cycles for a gate, installed correctly at the dimensions indicated in the installation instructions and without slow-downs.

KIT INCLUDES

- 1 x FALCON electro-mechanical operator (with integrated SPRINT control board)
- 1 x Foundation plate
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x VISION photocell
- 1 x Rack 6 Mt.
- 1 x Installation accessories
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



Line	3x1,5 mm ²	Tx photocells	2x0,5 mm ²
Motor*	4x1,5 mm ²	Rx photocells	4x0,5 mm ²
Blinker	2x1,5 mm ²		
Key-operated selector	2x0,5 mm ²		

Photocells protecting the opening leaf are not included in the kit but recommended

* For 24Vdc motor; use cable of 2x2,5mm² - max. distance between motor and the control board 10m

Zodiac

Zodiac is a ceiling mounted electro-mechanical operator for spring sectional doors and counter balanced up-and-over doors (with special adaptors). An innovative operator, with an integrated control board, self learning programming mode, and standardised rails for both models. The Zodiac has compact dimensions of 360 x 200 x 120mm. It has a reduced installation time with a base in strong plastic material which reduces operator weight and hence makes installation easier.



Models	Zodiac 60	Zodiac 100
Power supply voltage	230Vac	
Electric motor voltage	24 Vdc	
Power (W)	220	350
Thrust (N)	600	600/1000
Max consecutive cycles	30	
Max carriage travel (mm)	1900 - 2500 - 3100	
Sectional door max dim (m)*	5.00 x 2.50	5.00 x 3.10
Max dim of sprung/counter weights up and over door (m)*	3.00 x 2.50	3.00 x 3.10
Type and frequency of use at 20°C	80 cycles per day	
Operating ambient temperature (°C)	-20 to + 55	
Operator weight (Kg)	6.6	
Protection class	IP20	

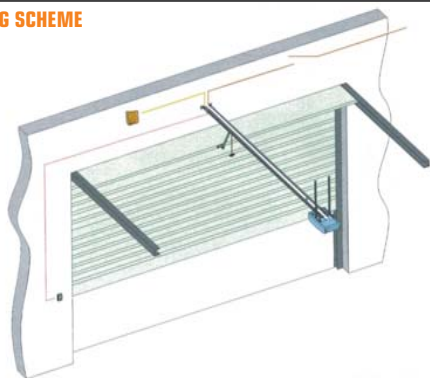
* Max height depends on the door geometry. The indicated values refer to traditional configurations.

KIT INCLUDES

- 1 x Zodiac electro mechanical operator
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x Rail G 2500-2C
- 1 x Installation instructions



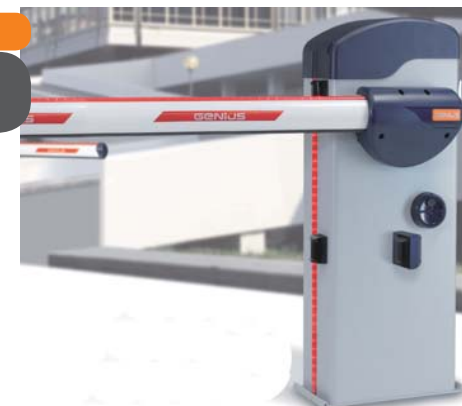
ELECTRIC WIRING SCHEME



- Line 3x1,5 mm²
- Blinker 2x1,5 mm²
- Key-operated selector 2x0,5 mm²

Rainbow

RAINBOW is the ideal solution for high traffic areas or where the barrier operates continuously at certain times of day, car parks, garage entrances or industrial zones. Versions are available from 3.5m to 7m. RAINBOW was designed with particular attention to security and versatility of use, along with the quality of the materials on the load-bearing structure. The presence of a standard encoder allows the detection of an obstacle during movement.



Models	Rainbow 524 C	Rainbow 724 C
Power supply voltage	230 Vac 50Hz	
Motor supply voltage (Vdc)	24	
Max Power at thrust (W)	280	480
Motor rate power (W)	160	220
Max torque at 24Vdc(Nm)	140	370
Opening/closing nominal time (sec) ⁽¹⁾	4 to 8	7 to 11
Max Beam (m) ⁽¹⁾⁽²⁾	5	7
Daily max cycles	1000	500
Operator weight (Kg)	66	72
Protection class	IP54	IP54

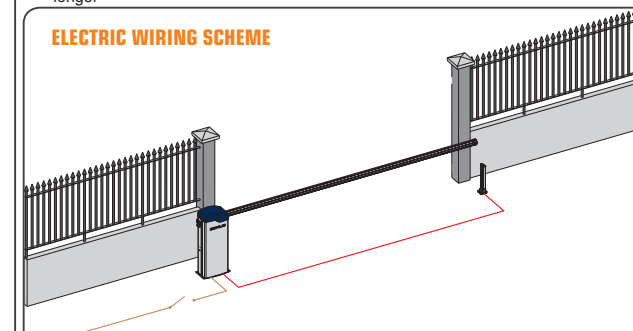
(1) Time depending on the type of slowdown programmed
 (2) Length referring to the width of the passage, actual beam length is 400mm longer

KIT INCLUDES

- 1 x RAINBOW C Electro-mechanical operator (with integrated LYNX 05 control board)
- 1 x Foundation plate
- 1 x Single channel 868 Mhz receiver
- 2 x KILO 2 Transmitters
- 1 x ORION photocell
- 1 x Barrier beam
- 1 x Beam bracket
- 1 x Installation instructions



ELECTRIC WIRING SCHEME



- Line 3x1,5 mm²
- Blinker 2x1,5 mm²
- Key-operated selector 2x0,5 mm²
- Tx photocells 2x0,5 mm²
- Rx photocells 4x0,5 mm²

Accessories

K44 - keypad

Dimensions 140mm (H) x 80mm (W) x 40mm (D)

30 codes of 4 or 6 digits.

Weather resistant with a grey finish and the Supply Voltage is 12/24v AC/DC. The Keypad has back lit buttons, a two relay output, programming via keyboard. Lock open time of 1-99 seconds. Two door interlock facility.



Additional transmitters can be ordered for any kits

INTERCOMS

Audio Intercom

The 4000 series provides 2 types of module, standard and vandal resistant. The module front plates are available in 3 different finishes: mirror finish, stainless steel, anodized aluminium and high brass finish.



Audio Intercom

Vandal resistant

Video Intercom

The audio video module is contained within a single module, the built in camera has a horizontal and vertical adjustment. Video cameras are available in both black and white and colour. Buttons have interchangeable name plates.



GSM Intercom

The GSM door kit uses mobile phone technology. The GSM amplifier is totally self contained and only requires an external power supply and antenna while having the flexibility to combine with the full range of the 4000 series module features. Also available in a vandal resistant option.



GUIDELINE FOR THE INSTALLER OF AN AUTOMATION SYSTEM

The installation of automatic gates and garage doors is covered by the European Standards EN 12453, EN12445 and EN 13241-1 and guidance is given to risk assess their operation and provide a safe working system. Once an automation system is added to a gate or door a machine is created and the governance of the Machinery Directive prevails. Once completed the machine must be issued with a Declaration of Conformity and a CE mark.

1. Installer's Responsibility

- Assess Risk and Specify Appropriate Automation System
- Analyse the structure of the gate and pier to ensure they are robust enough to support automation. Note: the reliability and safety of the machine can be influenced by inadequate structural support.
- To make a complete analysis of risks associated with the operation of the gate and the solutions for compliance with the European Standards (EN12453).
- To correctly specify the automation products to perform the operation of the gate safely.

2. Compliance

- To install the system in compliance with the analysis of risks and following the manufacturer's instructions for the correct installation of the automation components.
- Ensure that only materials with Declarations of Conformity and CE marks are used in the system.
- Provide warning signs where it is considered there may be dangerous areas where it has not been possible to eliminate them with other devices.
- To make functional tests of all components included in the automation system. To verify the safety devices perform in accordance with the risk assessment recommendations and that the forces on the moving gate leaves are measured, recorded and are compliant with the Standard EN 12445.
- Once satisfied that the machine is safe and compliant, apply the CE Mark.
- Instruct the end user about the safe operation of the system and how to manually release the gate operators in the event of power failure.

3. The Technical Booklet

Content as follows:

- The risks analysis and a list of all the installed components.
- A schematic drawing showing the constituent parts of the system.
- A wiring diagram of the system.
- The manufacturer's manuals for the components of the system.
- The CE certificates for the components of the system.
- A copy of the Declaration of Conformity for the system.
- The results of the impact tests undertaken on the gate/door.

4. To be given to the end Customer

- User guide.
- Maintenance plan.
- Maintenance register.
- CE Declaration of Conformity for the system.

For further information visit www.geniusgates.co.uk



Automated systems for
SWING GATES



Automated systems for
SLIDING GATES



Automated systems for
**GARAGE DOORS and
SHUTTERS**



Automated systems for
INDUSTRIAL GATES



Automated systems for
BARRIERS



GENIUS[®]

Genius

Unit 10, The Hatch Industrial Park, Greywell Road,
Mapledurwell, Basingstoke, RG24 7NG
Tel: 01256 318100 Fax: 01256 318101
www.geniusgates.co.uk

