



AUTOMATIC ENTRANCE SPECIALISTS

Box

Automatic systems for garage doors with counterweight balancing

CE



novotecnica

Automatic gates

Box

Automating your garage door is not only very convenient, especially in bad weather conditions, but is also a means of defending your privacy

and all reserved areas. The Box system is the ideal solution, because, in addition to being easy to install, it is able to move even counterweight

balancing doors of large dimensions of standard, total re-entry or jointed type, using 1 or 2 geared motors.

Product range

Box 30

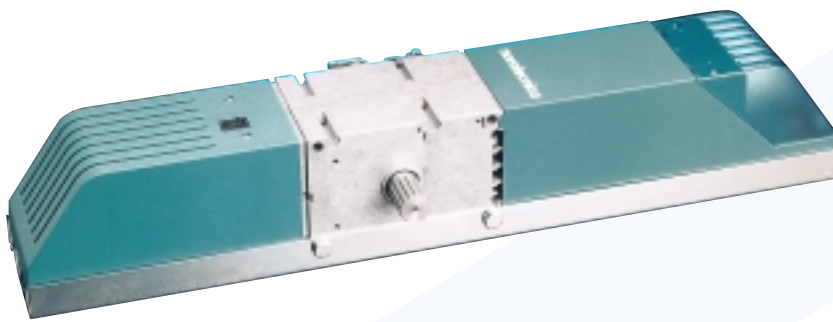
Non-reversible geared motor with courtesy light and base plate designed to house the X31 control panel. Operates with a 230V AC power supply.

Box 40

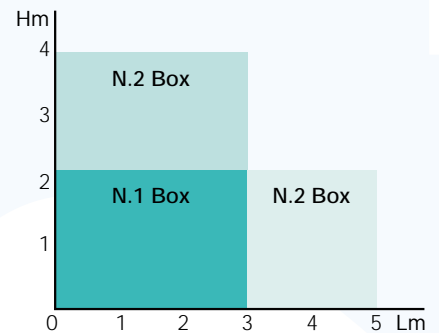
This version is similar to Box 30, but is slower and suitable for heavy or large doors. Operates with a 230V AC power supply.

Box 3SH

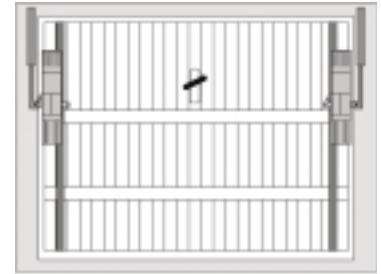
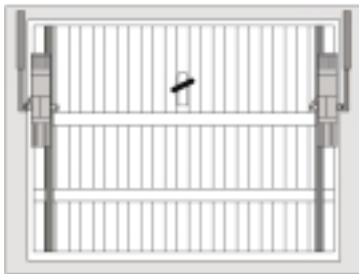
Non-reversible geared motor with base plate, without courtesy light. Operates with a 24V DC power supply.



Limits of use



Examples of installation



Technical specifications

Model:		Box 30	Box 40	Box 3SH
Voltage of power supply	V	230	230	24
Power	W	150	100	200
Current	A	1,3	1,2	12
Torque	Nm	300	300	300
Jogging		S2-15min, S3-25% (230 V AC)		S2-30min, S3-50% (24 V DC)

Accessories for remote release



Box SBC

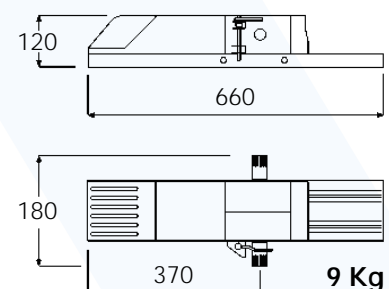


Box SBI

Box SBC Cord release for fitting handle

Box SBI Rod release for fitting handle

Dimensions (mm) and weight



Box

Construction features

The Box geared motor is equipped with a motor protected by a thermal switch (Box 30-40). The reduction system and the relative steel gears operate with **permanent lubrication** and are housed in sturdy pressure die-cast aluminium casings. Box is housed in a plastic casing, complete with a polycarbonate diffuser element for the **courtesy light** (Box 30-40), which is switched on automatically for 180s (with the X31 control panel) when the geared motor is ac-

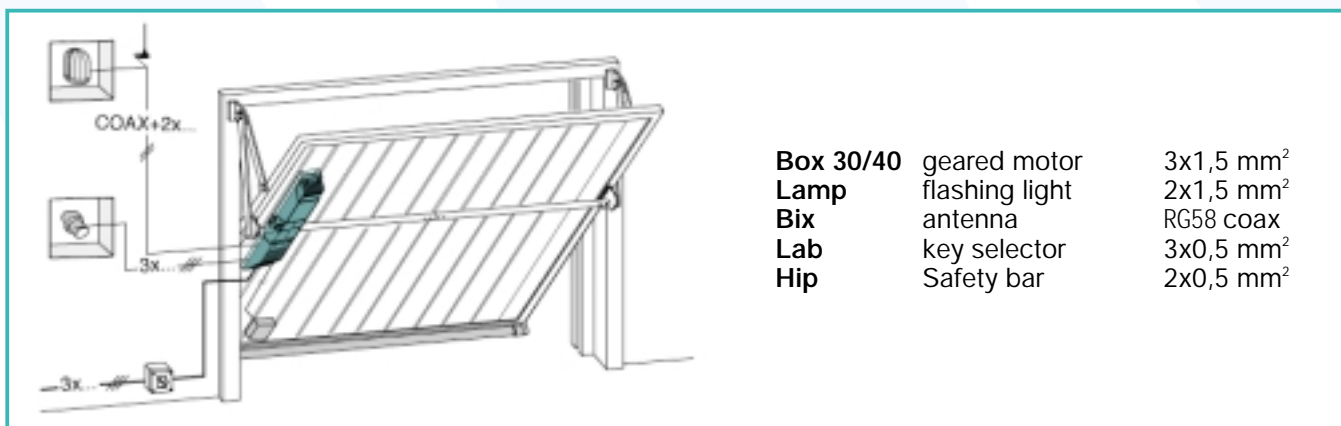
tivated. In order to guarantee perfect mechanical coupling, the motor is equipped with a **broached shaft**, in compliance with DIN standards, which is free from any mechanical play. In the case of power failure, the automatic system **always permits the manual operation** of the door, by releasing the geared motor by means of an internal lever or by a personalized key from the outside, or even by using the optional remote systems with a metal cord or rigid rod to be

connected to a special handle fixed onto the door. The whole system has been designed to permit the **practical installation** of both the geared motor and the control panel (X31) in the special base, and also of the return mechanisms which are connected to each other with special bolts, avoiding the need for any kind of structural modification to the door.

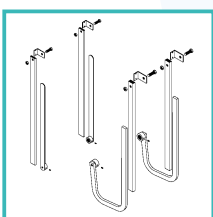


- **CE European certification**
- **Installation of the geared motor and of the return mechanisms without any need for welding.**
- **Sturdy solutions, suitable for the automation of all types of balancing doors.**
- **Maintenance-free geared motor, which operates even at low temperatures.**
- **Door locking guaranteed by the non-reversible system which avoids the need for additional locks.**

Positioning of electrical wiring connections for Box 30/40 - 230 V AC



Specific accessories



Box B2D-B2C



Box RL



Box RCG

- Box B2D** Pair of straight arms
- Box B2C** Pair of curved arms
- Box 2P** Pair of adjustable extensions for B2D and B2C
- Box RL** Set of accessories for lateral mounting
- Box RCG** Set of accessories for central mounting

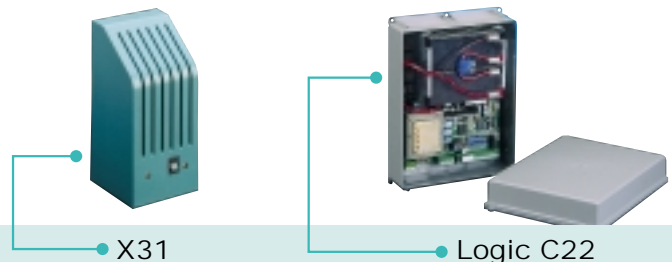
Box 30, Box 40 and Box 3SH

Principal features of the system

		Box 30	Box 40	Box 3SH
Control panel:		X31	X31	Logic C22
• ODS obstacle detection	With adjustable sensitivity which causes the stop of the movement of the door if an obstacle is detected.	✓	✓	✓
• RF force regulator	Ensures the optimal torque value for the door in order to guarantee correct functioning.	✓	✓	
• Pre-flashing signal	Provides a 3s advance warning light of the movement of the door	✓	✓	✓
• Ready for radio fitting	Permits to plug-in 1- or 2-channel receiver card, available for various frequencies.	✓	✓	✓
• Immediate radio re-closure	Possible even when the chosen function is positioned on timed "automatic closure".	✓	✓	✓
• Door open signal light	Lights up from the beginning of opening until the complete re-closure of the door.	✓	✓	✓
• Courtesy light	Automatically activated for 180s at each opening and closure command of the geared motor.	✓	✓	

In addition, all the Box geared motors possess:

• An internal release lever	Which enables easy manual operation in the case of power failure.	✓	✓	✓
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Functions of the control panels

Models:	X31	Logic C22
Power supply voltage to geared motor	230 V AC	24 V DC
Number of motors	1 or 2	1 or 2
24V DC power supply output to accessories	✓	✓
Power supply for electrical lock		✓
RF force regulator	✓	
ODS obstacle detection	✓	✓
Step-by-step or open-close/auto. clos.	✓	✓
Flashing light output	✓	✓
Pre-flashing signal	✓	✓
Provision for limit switch	✓	✓
Door open signal light	✓	✓
Safety devices	✓	✓
Courtesy light	✓	
Control panel can be installed "onboard" the motor	✓	
Batteries for operation in case of power failure		✓

IMPORTANT: If equipped with batteries, the control panels for the 24V DC motors permit numerous manoeuvres in the case of power failure.

Accessories

All automatic systems must be completed with control and safety devices possessing all the functioning and associated compatibility requirements prescribed by the regulations. In ad-

dition to manufacturing devices which are mutually compatible because they are designed "one for the other", and which guarantee the maximum safety of the system, NOVOTECNICA have

also taken aesthetic requirements into consideration. Indeed, thanks to its elegant design, the accessories range fits in well with both modern and period-style surroundings.

Hip

Safety rubber bars designed to guarantee the safe operation of the moving gate leaf.



Hip sicuro

Photocells for safety bars which constantly check the efficiency of the mobile bar. They authorize the safe operation of the door through the operating consent obtained from the self-testing circuit of the control panel.



Bix

Opening and closing the gate becomes even easier with a remote control device. There is no need to move your hands from the steering wheel of your vehicle, and you can control the automatic system of the gate and other devices such as the garden lights and the burglar alarm of the house with one or two flashes. If instead you wish to use other new generation self-learning radio frequency systems, featuring 16 million combinations, the following devices are available:

- Attractively designed miniature remote controls, with single code, and relative receivers, CEPT T/R 01.04 type-approved;
- "Rolling-code" miniature remote controls which make the detection and duplication of the code practically impossible, due to its continual variation.

Lab

Photocells with modulated infrared beam to permit the automatic system to operate at the maximum level of safety.



Lab 55

Key selector switches with an anti-burglary system. Models available for both wall mounting and embedding.



Lamp

Elegantly designed flashing beacons, used to signal the movement of the door.



Lan 4

Digital non-volatile programmable combination selector, in an anti-vandal stainless steel casing.



Regulations

DITEC automatic systems possess the CE mark and are designed and built in compliance with the safety requirements of the Machines Directive (89/392/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC).

DITEC S.p.A. reserve the right to make modifications aimed at improving the products.



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ISO 9001
Cert. n° 0957/0

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