



Shutters and industrial gates



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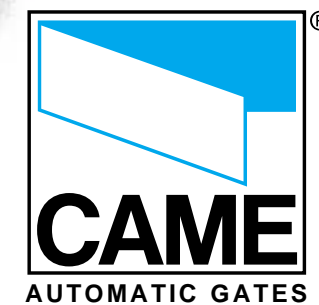
CAME is Europe's leading manufacturer of a complete range of **electromechanical automatic** gate control systems. Top-quality control systems designed for external installation and with **no need of periodic maintenance** are the basis for the success of CAME products. **CAME** automatic systems can be fitted also on an existing gate: your local CAME dealer will be delighted to help you selecting the system which best suits your requirements.

The range of **CAME** automatic systems includes:

- Automation for **sliding gates**
- Automation for **swing gates**
- Automation for **garage and sectional doors**
- Automation for **shutters and industrial gates**
- Automation for **car parks and street barriers**
- Automatic Pedestrian doors**
- Systems for **access control**
- Accessories for **control and safety**



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H

roll-up Doors



Simplicity and Performance

The roll-up door operator of the H series offer a safe and secure system for the automation of every type of roll-up door. A single model, suitable for various types of shafts and drums, permits a modular installation without additional adjustments. The possibility to add a second motor, further allows an increase in force for larger sized doors.

Practical and easy to install

Several constructive innovations make the installation fast and easy, simplifying the mounting procedure.

- The unit features an **EASY TO USE limit** system which permits quick regulation. During the installation it is sufficient to manually position the roll-up door once in order to set the limits.
- The motor is adaptable either to shafts of 48 mm (1 7/8") diameter or to those of 60 mm (2 3/8"), as well as to drums of 200 mm (7 7/8") or 220 mm (8 5/8") with the spacers provided.
- Also, an additional motor may be installed at a later time to increase the lift force from 120 kg(264Lbs) to 200 kg (440 Lbs).
- The automation is also available in a SELF-LOCK version to provide for an even more reliable and secure installation.



Sample Application

Large Range of Accessories

A large range of accessories is available, both for control and for safety, to compliment the device and provide for an installation that conforms to current technical and safety standards.

- **Series Z control panel** with radio decoder, for remote control operation of the door.
- Also available are key switches and keypads for every need, both for outdoor flush or surface mounts, adaptable, robust and modular.
- Safety devices such as: obstacle detection photocells and in motion indicator lamps.
- Emergency release system, operational from inside or outside, in a burglarproof enclosure.
- Release cord for manual operation in the case of power failure.

Control Panel

The **Control Panel** is easy to install and of small dimensions. It allows for operation in conformity with current technical and safety standards.



It is also ready for:

- Radio receiver
- Manual control of movement
- Safety Photocells
- Automatic closing timer
- Courtesy lamp
- "Open-Close-Stop" button
- Full stop button (emergency stop)



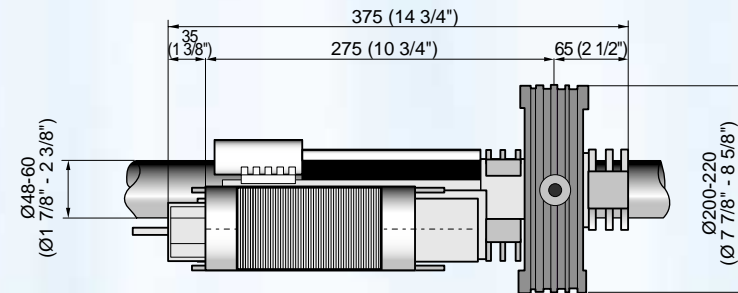
Division and closing off of sections



H series limit system

Technical Characteristics

Model	220v	H1003	H1103	H2003	H2103
Model	110v	H1014	H1114	H2014	H2114
Gear motor weight		7.7 kg	6.8 kg	11.2 kg	10.3 kg
Voltage		110/230V	110/230V	110/230V	110/230V
Amps		4.8/2.4	4.8/2.4	9.0/4.5	9.0/4.5
Power		270 W	270 W	500 W	500 W
Duty Cycle		30 %	30 %	30 %	30 %
RPM		9	9	9	9
Reduction ratio		1 / 150	1 / 150	1 / 150	1 / 150
Lift capacity		120kg/264lbs	120kg/264lbs	200kg/440lbs	200kg/440lbs
Capacitor		32/16 µF	32/ 16 µF	44/22 µF	44/22 µF
Gear type		Self-Lock	Reversible	Self-Lock	Reversible



Operational Limits

Although the operators offer high performance in terms of lift force, it is advisable to consider the following factors:

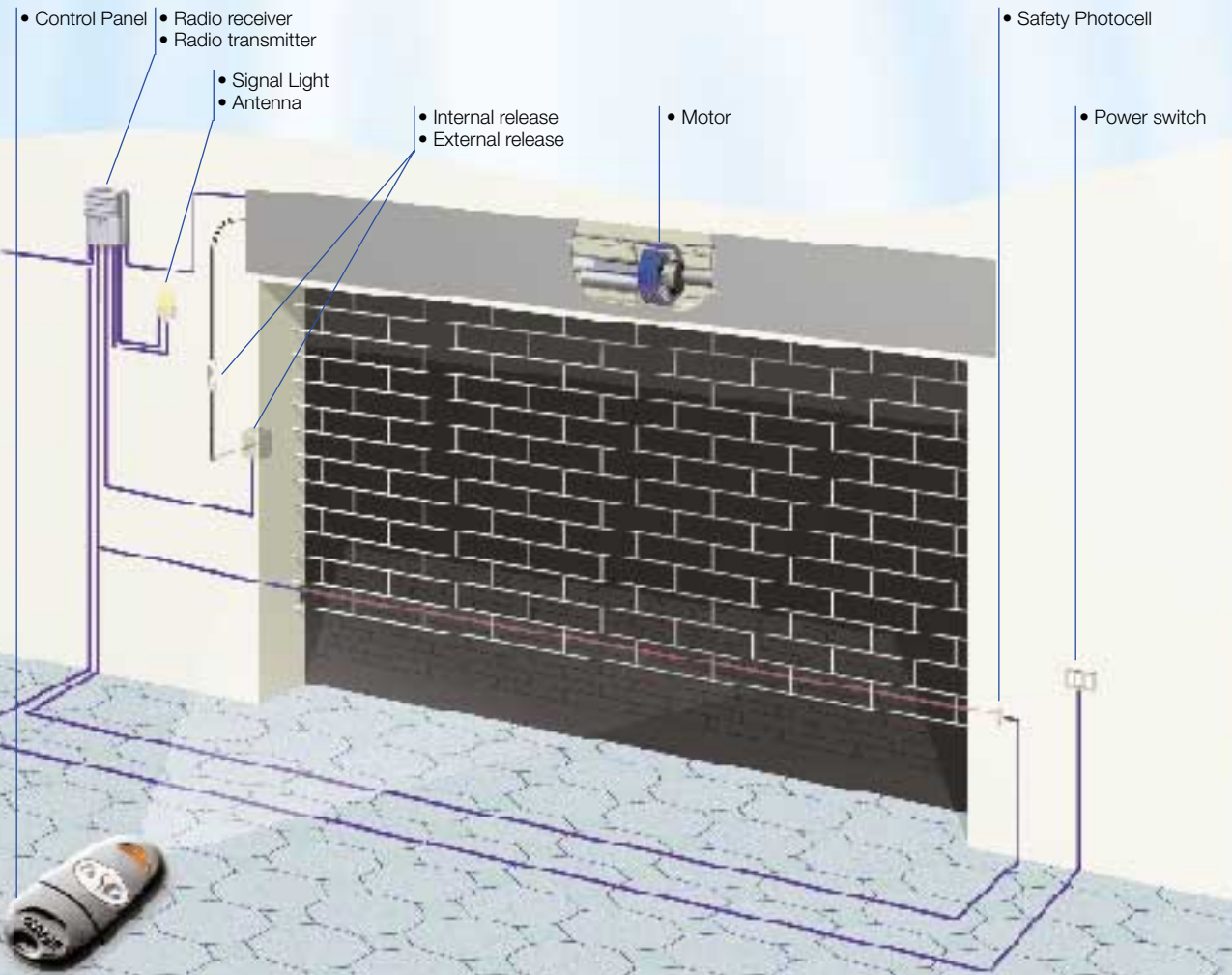
Balance

The movement of the gate must be smooth and the balance settings (springs) must be complete, functional and adjusted.

Large gates

In case of intensive use a selection of a double motor model H2003/H2014 or H2103/H2114 is advisable.

Typical installation



Additional motor

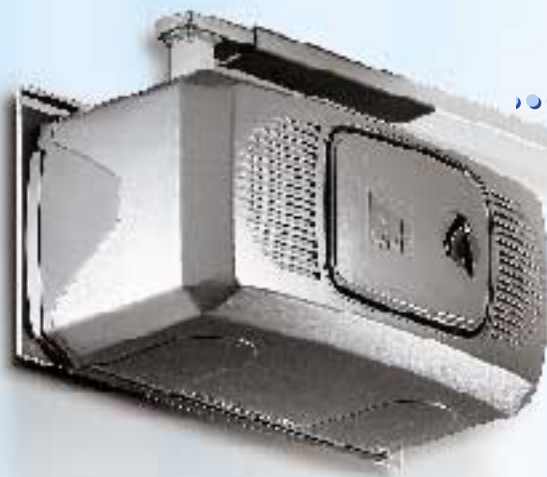


Manual Release enclosure



Break and Manual release cord for REVERSIBLE versions

Applications



Simplicity and Power

The F series operators are an excellent solution for the automation of folding doors with two movable wings. Affixed directly on the door they permit secure and linear movement even within reduced spaces. Available in 120/230V or 24Vdc for intensive use.



Folding door with 2 wings

Powerful and Versatile

Affixed to the door by means of a useful bracket, the series F operators allow for the automation of all types of folding doors up to a maximum weight of 440lbs/200 kg per door.

- The unit features a cam wheel limit system which permits quick regulation of the stop limits. During the installation the cams are manually positioned in close proximity of the door stop points.
- The manual release mechanism allows to release the unit in the event of a power failure.
- Two operators can be used with a single control panel to simplify the installation.
- The automation is SELF-LOCKING and is also available in a 24 V dc version for intensive use and emergency operation during power failures.

Vast range of accessories

A vast range of accessories is available, both for control and safety, to compliment the device and to comply with technical and safety regulations.

- The control panels incorporate a radio receiver for remote control. Some control panels perform an AUTO-DIAGNOSIS of the safety devices connected to the system, such as photocells and sensors. They are further equipped with a special START UP function, specifically created for the folding door application.
- Also available are key switches and keypads for every need, both for outdoor flush or surface mounts.
- In the case of power failure, the emergency battery back-up card along with the low voltage control panel and operator maintain the door system operational.



F series release system

Control Panel

The control panel, easy and practical to install, is equipped with easy to use control buttons and is ready for:

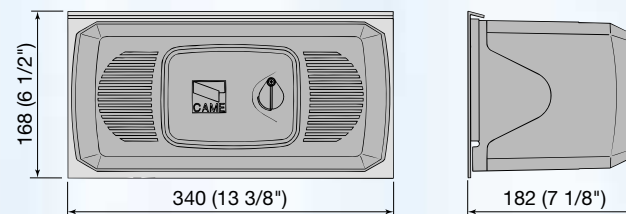
- Radio frequency card
- Manual control
- Safety photocells
- Automatic close timer
- Obstacle detection at the limit position
- "Open-Close-Stop" button
- Power switch
- Partial opening
- Flashing light



F series limit system

Technical Characteristics

Model	F3000	F3024
Weight	12 kg/27lbs	12.5 kg/27lbs
Power Supply	120/230V	120/ 230 V.
Motor power supply	120/230V	24 V
Amps	2.6/1.3 A	15 A
Power	150 W	180 W
Duty Cycle	30 %	50 %
RPM	9 rpm	9 rpm
Reduction ratio	1 / 150	1 / 150
Torque	320 Nm adjustable	420 Nm adjustable
Capacitor	20/10 µF	-
Reduction type	Self-Locking	Self-Locking



Operational Limits

The F series operators have been designed specifically for the automation of industrial type folding doors. In order to select the most appropriate operator it is important to consider the following:

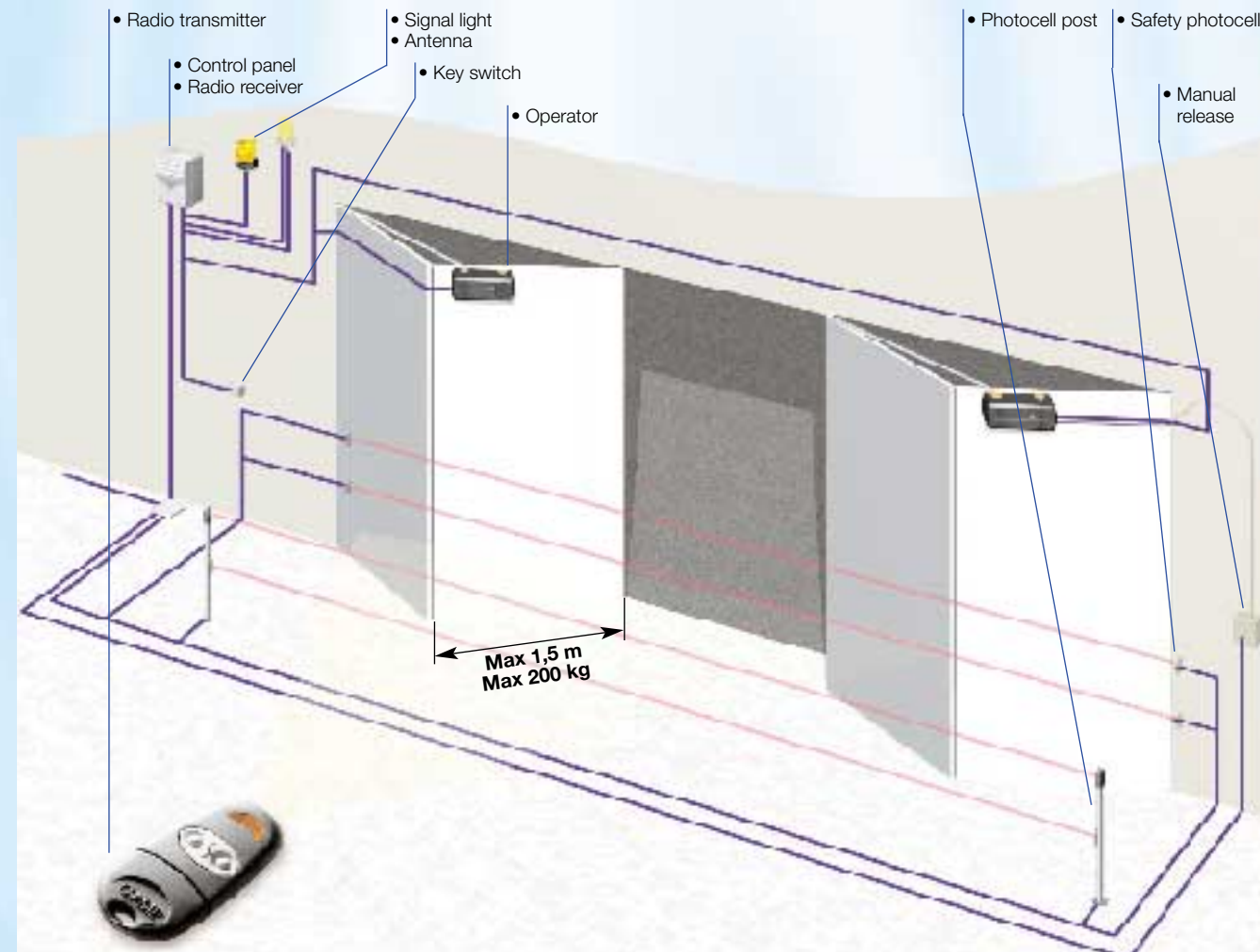
Dimension of the door

F3000 and F3024 are able to move doors of up to 440lbs/200kg and a maximum width of 4.9ft/1.5mt per leaf.

Intensive use

In the case of intensive use, we recommend to use model F3024 at 24 V dc.

Folding door installation



C

doors
windows
sectional
doors
rolling gates



Simple and Versatile

The series C gear motors represent the ideal solution for automated industrial doors of small or large dimensions.

Folding gates, sliding gates with one or two doors, sectional doors, louver windows, rolling bar gates, are only some of the possibilities.

A special three phase 400 V version is also available for intensive uses.

C-BY Power and simplicity

The series C gear motors are applicable in either chain driven or draw action modes. A vast range of mounting accessories allows for a quick and easy installation, for all types of industrial doors, folding, sectional or sliding up to 1000 kg / 2200lbs of weight.

- The unit is equipped with a manually adjustable limit system, quick and precise, that allows control of movement up to 6.5 mt/21.32ft.
- A single chain driven operator, moves two sliding or folding doors, in opposite directions.
- Available also a three phase 400 V version for intensive use (C-BYT).
- The automation is SELF-LOCKING and therefore locks in the closed position. However, it can be released for manual operation.



Folding Gates with 4 doors

C 100 Compact and versatile

Similar to the function of the C-BY, this operator represents the ideal solution for medium sized sliding doors and for louver windows.

Thanks to its compact size, it is easy to position even in particularly small spaces. Absolutely self-locking, guarantees locking in the closed position and may be released for manual operation.

Vast range of accessories

A vast range of CAME accessories allows for the installation to conform with current technical and safety standards. Control panel, brackets, drive system, all designed for quick and easy mounting, without modifications to the gate.

Control Panel

The control panel, easy and practical to install, is equipped with easy to use control buttons and is ready for:

- Radio frequency card
- Manual control
- Reversing of movement
- Automatic closing timer
- Obstacle detection at the limit position
- "Open-Close-Stop" button
- Power switch control
- Master Slave
- Movement light
- Courtesy lamp and cycle light



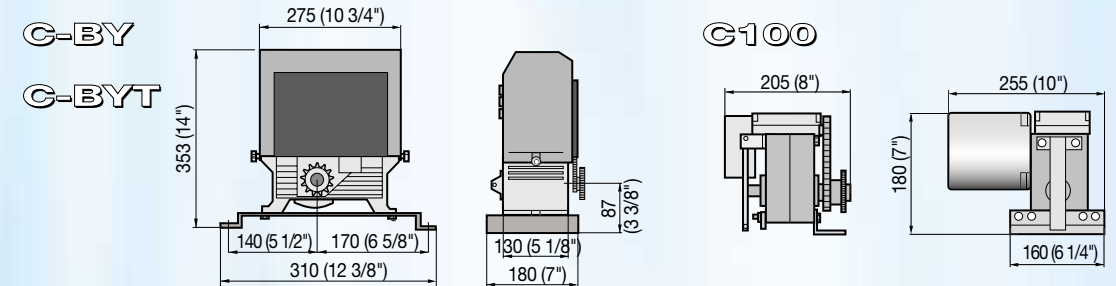
C-BY sectional gates



C-BY limit system

Technical Characteristics

Model	C-BY	C-BYT	C100
Motor Weight	18.5kg/40.7lbs	18.5kg/40.7lbs	8.5kg/18.7lbs
Power Supply	110/230V	230 - 400V	110/230V
Motor power supply	110/230V	230 - 400V	110/230V
Amps	8/4A	2 - 1.2 A	4.6/ 2.3 A
Power	450 W	600 W	300 W
Duty Cycle	30 %	50 %	30 %
RPM	45 rpm	45 rpm	42 rpm
Reduction ratio	1 / 30	1 / 30	1 / 32
Lifting force	50 Nm adj	50 Nm	26 Nm adjustable
Capacitor	60/31.5 µF	-	40/20 µF
Reduction type	Self-Locking	Self-Locking	Self-Locking



Release handle



Mounting accessories



Drive accessories

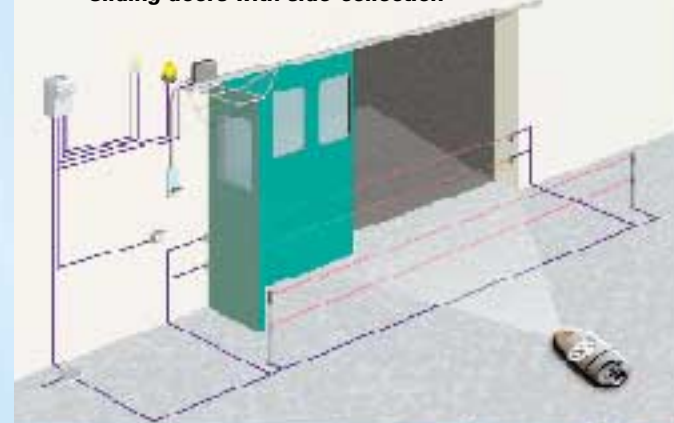
Operational limits and application settings

The performance of the series C gear motors vary in function of the crown wheel applied for traction. Here are some examples:

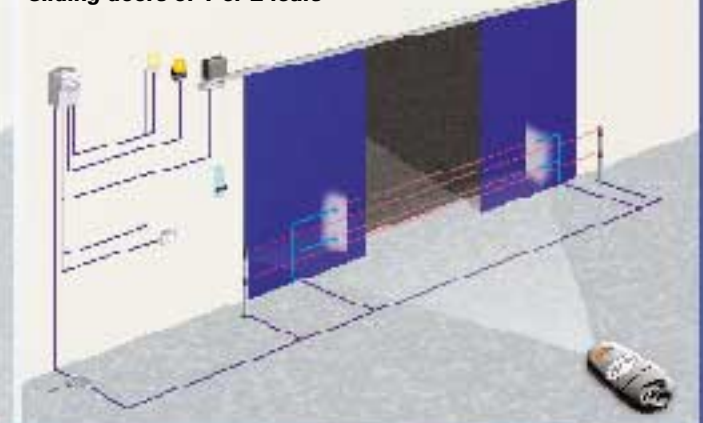
Wheel	Motor	C-BY	C-BYT	C100
15 teeth WHEEL	Louver	50 Nm - 45 rpm	50 Nm - 45 rpm	26 Nm - 42 rpm
36 teeth WHEEL	Sectional door	120 Nm - 18.5 rpm	120 Nm - 18.5 rpm	62 Nm - 17.5 rpm
60 teeth WHEEL	Rolling bar doors	200 Nm - 11 rpm	200 Nm - 11 rpm	100 Nm - 10.5 rpm

Sample Applications

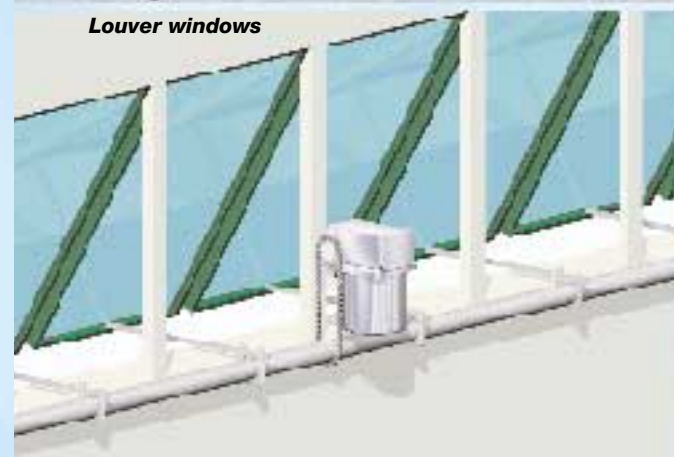
Sliding doors with side-collection



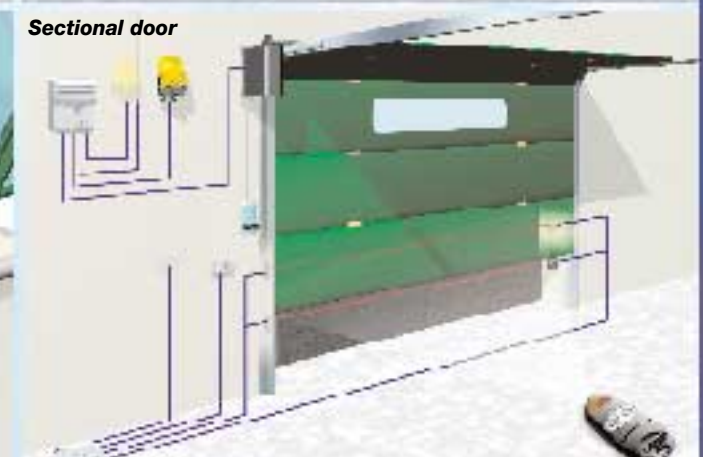
Sliding doors of 1 or 2 leaves



Louver windows



Sectional door



Applications

