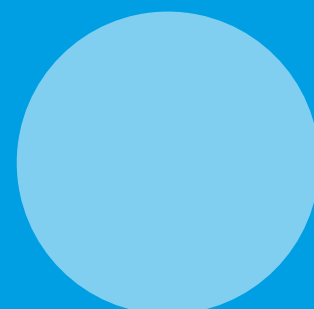


# GARAGE DOOR AUTOMATION



112	SELECTION GUIDE
114	STANDARD INSTALLATION
118	VER PLUS
120	VER
122	EMEGA
125	CONTROL BOARD FUNCTIONS

# Selection guide

## Garage doors automations

The table summarizes the series and models with their maximum operational limits according to the door surface or the traction force.

Series	Model	Max. surface of the door (m <sup>2</sup> )
EMEGA	EM4024CB	9
EMEGA	EM4024CB + EM4024	14
Series	Model	Maximum traction force (N) / Maximum door surface area (m <sup>2</sup> )
VER	801MV-0050	600 / 9
VER	801MV-0060	800 / 12
VER PLUS	801MV-0010	1000 / 18
VER PLUS	801MV-0020	1300 / 21

● 24 V DC



**COUNTER-BALANCED OVERHEAD OR SPRING LOADED PARTIALLY RETRACTING DOOR**

This type of door features a counter-weighted or spring-loaded balancing system. When opening and closing the door retracts into the garage by two-thirds of its surface area.



**PROTRUDING OVERHEAD GARAGE DOOR PARTIALLY RETRACTING DOOR (WITH TWO GEARMOTORS ON THE DOOR)**

This type of door features a counter-weighted or spring-loaded balancing system. When opening and closing the door retracts into the garage by two-thirds of its surface area. The double gearmotor is fitted with insulated and/or pedestrian doors.



**COUNTER-BALANCED OVERHEAD OR SPRING LOADED**

This type of door is powered via traction system. Depending on the type of door, you will need to choose the right type of chain or belt as well as the right type of adapter arm for counter-weighted, protruding, partially-retracting overhead garage doors.



**NON-PROTRUDING, TOTALLY RETRACTING, OVERHEAD GARAGE DOOR (WITH GEARMOTOR FITTED TO DOOR)**

This type of door is balanced by counter-weights. When opening, the door fully retracts into the garage.

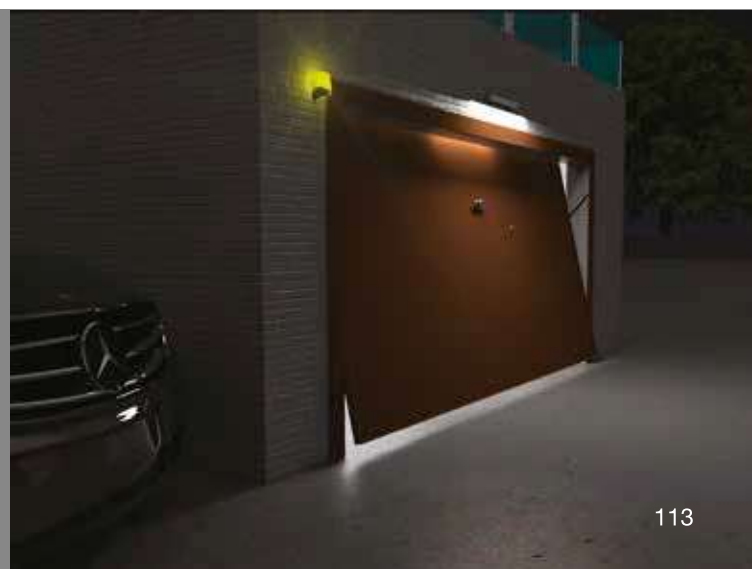


**SECTIONAL DOOR**

This type of door is spring-loaded for balance. It is made up of hinged, horizontal panels.

The flashing light for movement signaling.

CAME has always suggested installing the flashing light as an additional safety feature for the automation system. The KRX range, with LED technology, combines energy saving and great reliability with easy installation. KRX can be integrated with all CAME radio systems, is available in various colors, has a built-in radio antenna and each model can be powered from 24 V DC to 230 V AC.



# COUNTERBALANCED, PARTIALLY RETRACTING, OVERHEAD GARAGE DOOR



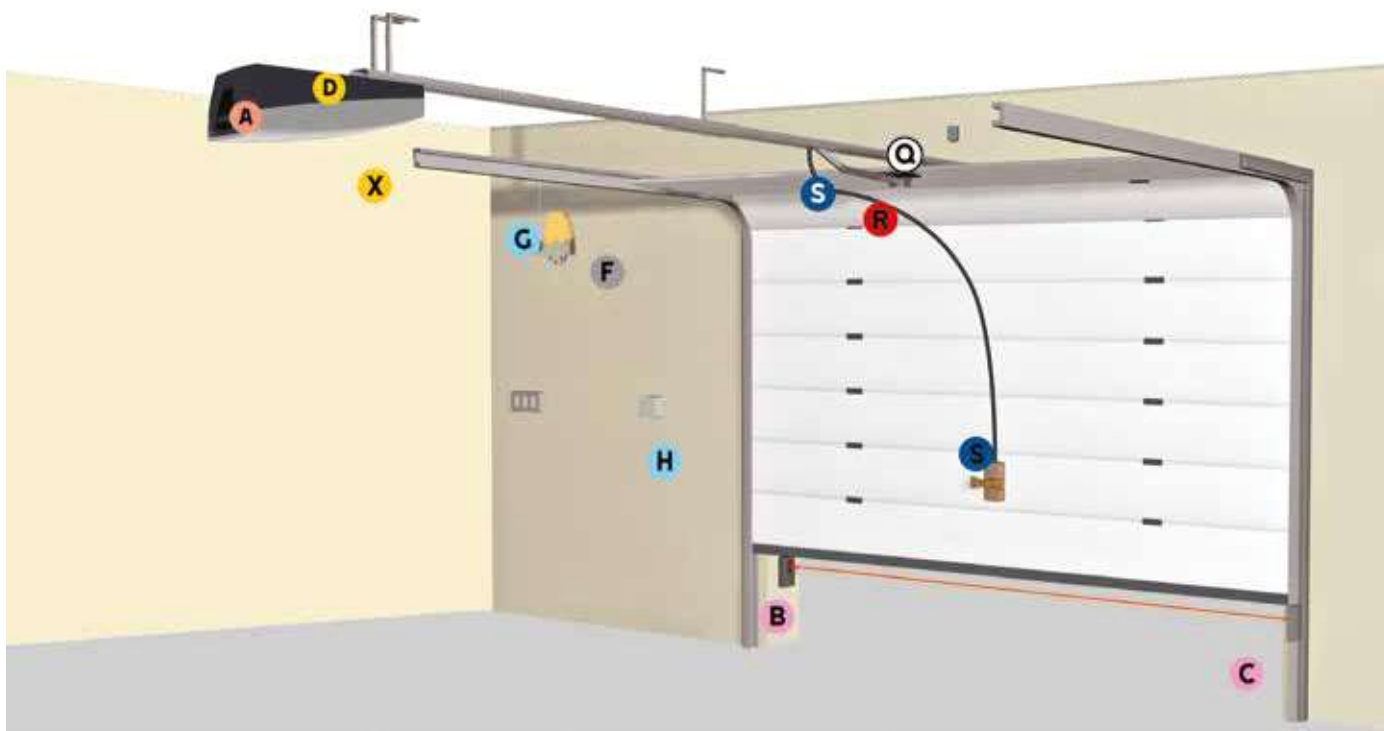
## COMPONENTS

- A** Operator (garmotor with control board)
- B** TX Photocells
- C** RX Photocells
- D** Control card for operating during power outages
- F** Flashing light
- G** Antenna
- H** Control switch  
(Key – Code – Card or transponder fob)
- K** Adapter arm
- Q** Junction box
- S** Pull-cord release device
- X** Radio frequency card

## CABLES FOR STANDARD INSTALLATIONS

LENGTH OF CABLE (m)	< 10	from 10 to 20	from 20 to 30
Power supply 230 V AC	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Flashing light 24 V AC - DC	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>
TX Photocells	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
RX Photocells	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Control devices	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>
Antenna		RG58 max 10 m	

\*no. = see product mounting instructions - Attention: the cable section is merely indicative as it depends on the motor power and cable length.



## COMPONENTS

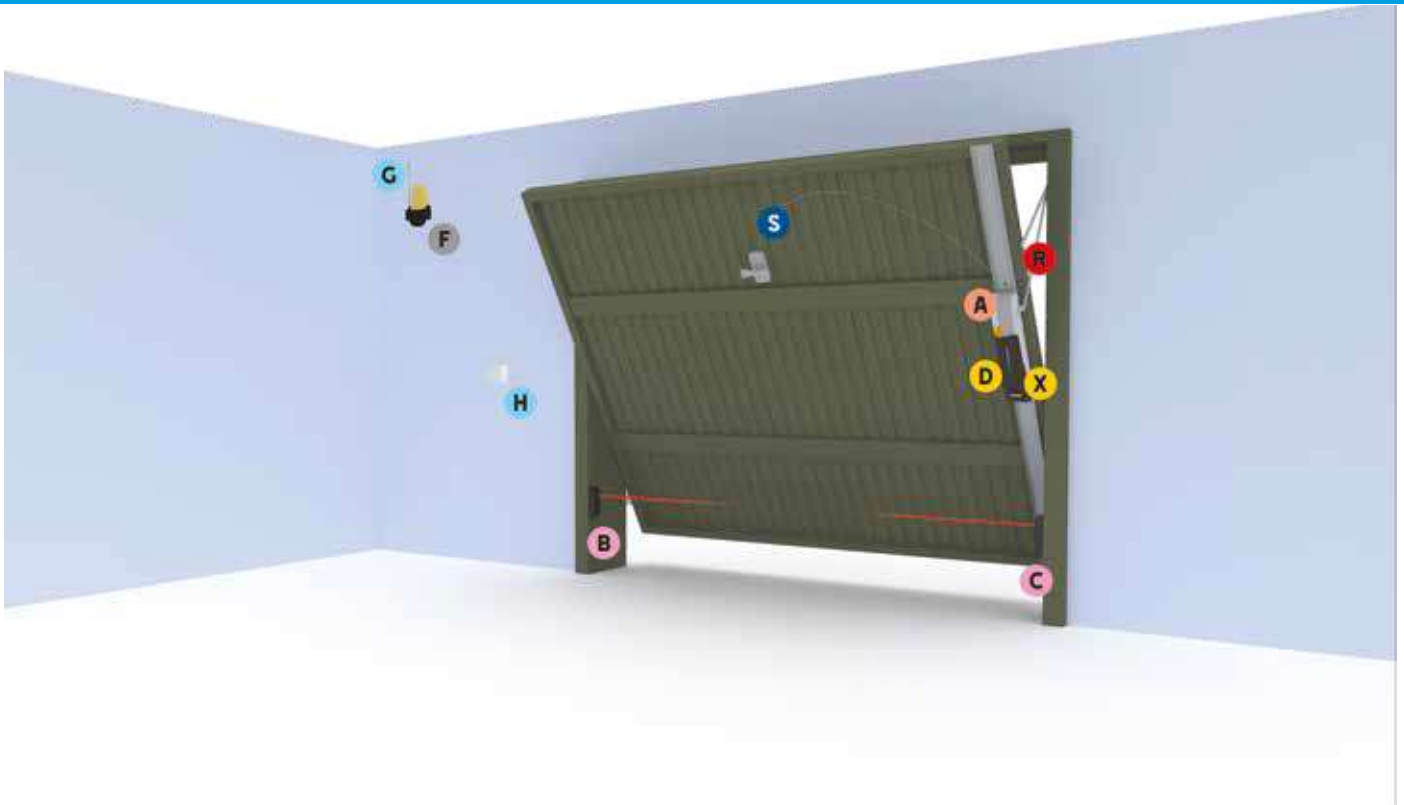
- A** Operator (garmotor with control board)
- B** TX Photocells
- C** RX Photocells
- D** Control card for operating during power outages
- F** Flashing light
- G** Antenna
- H** Control switch  
(Key – Code – Card or transponder fob)
- Q** Junction box
- R** Drive levers
- S** Pull-cord release device
- X** Radio frequency card

## CABLES FOR STANDARD INSTALLATIONS

LENGTH OF CABLE (m)	< 10	from 10 to 20	from 20 to 30
Power supply 230 V AC	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Flashing light 24 V AC - DC	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>
TX Photocells	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
RX Photocells	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Control devices	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>
Antenna		RG58 max 10 m	

\*no. = see product mounting instructions - Attention: the cable section is merely indicative as it depends on the motor power and cable length.

# COUNTERBALANCED, PARTIALLY RETRACTING, OVERHEAD GARAGE DOOR SINGLE MOTOR



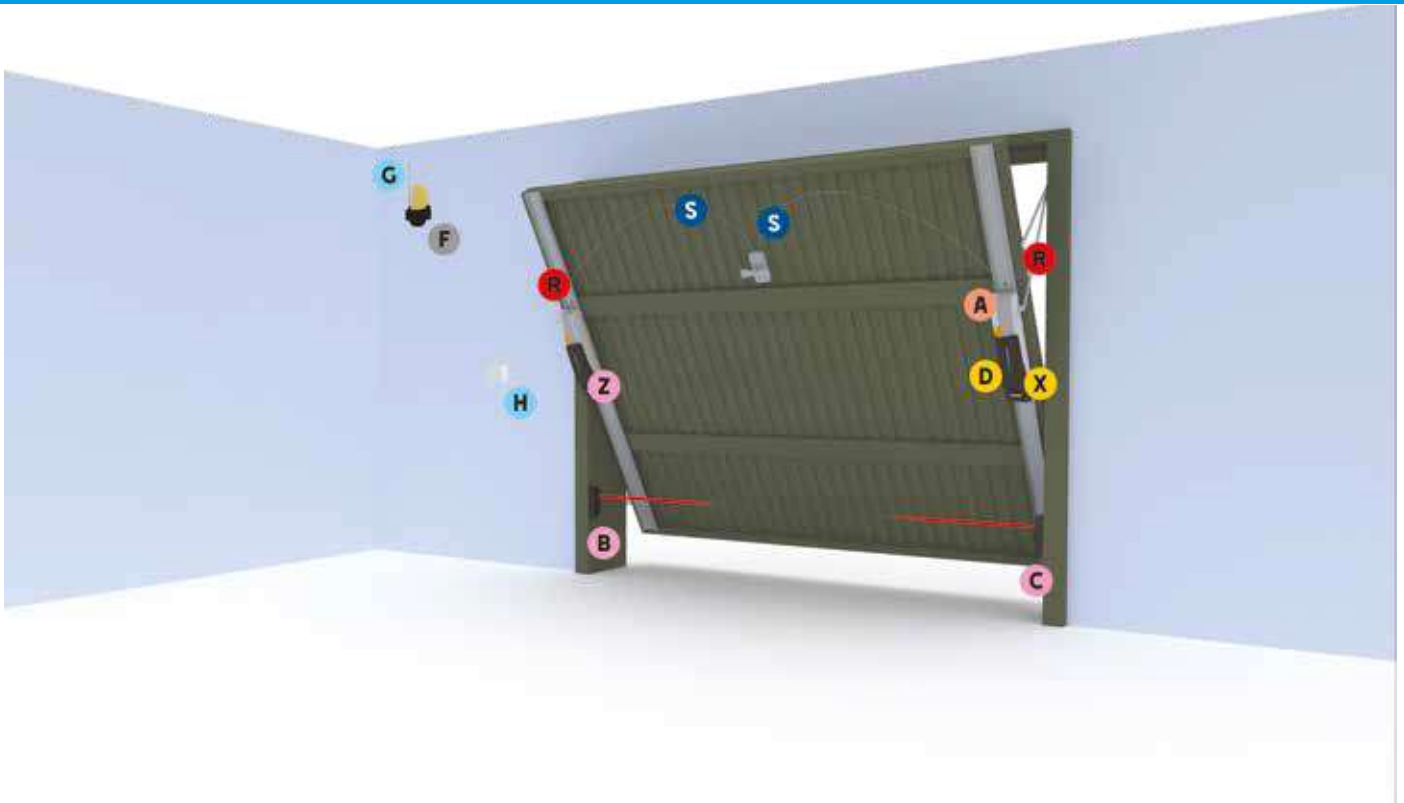
## COMPONENTS

- A** Operator (garmotor with control board)
- B** TX Photocells
- C** RX Photocells
- D** Control card for operating during power outages
- F** Flashing light
- G** Antenna
- H** Control switch  
(Key – Code – Card or transponder fob)
- R** Drive levers
- S** Pull-cord release device
- X** Radio frequency card

## CABLES FOR STANDARD INSTALLATIONS

LENGTH OF CABLE (m)	< 10	from 10 to 20	from 20 to 30
Power supply 230 V AC	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Power supply to motor 24 V DC	2G x 1.5 mm <sup>2</sup>	2G x 1.5 mm <sup>2</sup>	2G x 2.5 mm <sup>2</sup>
Flashing light 24 V AC - DC	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>
TX Photocells	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
RX Photocells	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Control devices	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>
Antenna		RG58 max 10 m	

\*no. = see product mounting instructions - Attention: the cable section is merely indicative as it depends on the motor power and cable length.



## COMPONENTS

- A** Operator (garmotor with control board)
- B** TX Photocells
- C** RX Photocells
- D** Control card for operating during power outages
- F** Flashing light
- G** Antenna
- H** Control switch  
(Key – Code – Card or transponder fob)
- R** Drive levers
- S** Pull-cord release device
- X** Radio frequency card

## CABLES FOR STANDARD INSTALLATIONS

LENGTH OF CABLE (m)	< 10	from 10 to 20	from 20 to 30
Power supply 230 V AC	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Power supply to motor 24 V DC	2G x 1.5 mm <sup>2</sup>	2G x 1.5 mm <sup>2</sup>	2G x 2.5 mm <sup>2</sup>
Flashing light 24 V AC - DC	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>
TX Photocells	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
RX Photocells	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Control devices	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>
Antenna		RG58 max 10 m	

\*no. = see product mounting instructions - Attention: the cable section is merely indicative as it depends on the motor power and cable length.



# VER PLUS

OVERHEAD AND SECTIONAL DOORS



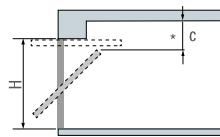
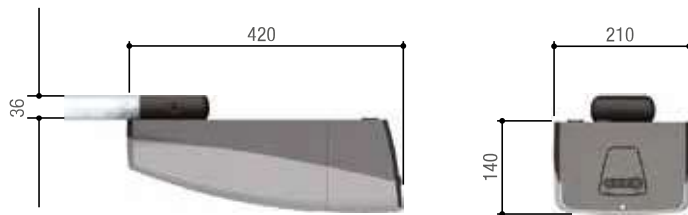
MAXIMUM DOOR SURFACE	PULL STRENGTH	DUTY CYCLE	TYPE/APPLICATION
21 m <sup>2</sup>	1300 N	30 CYCLES/HOUR	PULLING



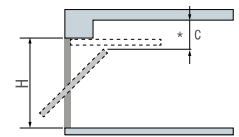
## Operator for sectional or up-and-over garage doors for residential settings and industrial plants

- 24 V DC systems with encoder to guarantee greater safety and reliability.
- The operator is fastened directly onto the drive guide.
- Silent and reliable sliding guides, available with chain or belt.
- Control board with separate and removable terminal blocks.
- Save up to 250 different users.
- Display for programming and viewing features.
- Ready for operation in case of power outage.
- Integrated release lever, with the possibility of operating from the outside using the door handle.
- Developed with CONNECT technology for remote digital control via gateway or locally via CAME KEY.

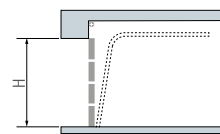
### Dimensions (mm)



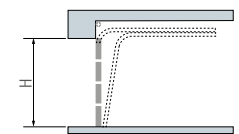
BC - Partially retracting, protruding overhead garage door. (con 001V201)



BM - Fully retracting, protruding overhead garage door.



STA - SECTIONAL Type A with single guide



STB - SECTIONAL Type B with double-guide

C-distance = Min. 60 mm.  
H = Max. door height  
\* Maximum headroom of the door during movement (at about 2/3 of opening)

### Operational limits

MODELS	801MV-0010	801MV-0020
Max. surface of the door (m <sup>2</sup> )	18	21
Max. traction force (N)	1000	1300

### Technical characteristics

MODELS	801MV-0010	801MV-0020
Protection rating (IP)	40	40
Power supply (V - 50/60 Hz)	230 AC	230 AC
Power supply to motor (V)	24 DC	24 DC
Absorption (A)	10 Max.	10 Max.
Power (W)	180	280
Cycles/Hour	30	30
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55

## Code

## Description

### Complete operators with 24 V DC gearmotors, tested in compliance with regulatory standards EN 12453

#### 801MV-0010



VER10DMS - Operator with encoder, featuring a control panel for sectional and overhead garage doors.

#### 801MV-0020



VER13DMS - Operator with encoder, featuring a control panel for sectional and overhead garage doors.

### Accessories for: 801MV-0010 - 801MV-0020

#### 801XC-0010



Device for operation during power outages and for recharging the batteries (included are two 12 V - 0.8 Ah batteries).

### Accessories

#### 001V122

Drive arm for sectional doors with the distance between the upper edge of the door and the shaft-spring assembly between 300 and 600 mm.

#### 001V121

Pull-cord release and resetting device to fit on door handle. L = 3 m.

#### 001V201

Adapter arm for partially protruding overhead garage doors. Max. Door height: 2.4 m.

### Belt guides

#### 001V0685

Belt guide L = 3.02 m, for doors with max. surface of 15 m<sup>2</sup>.  
\*Max. door height:  
BC = 2.4 m BM = 2.25 m STA = 2.1 m STB = 2.2 m.

#### 001V0686

Belt guide L = 3.52 m, for doors with max. surface of 15 m<sup>2</sup>.  
\*Max. door height:  
BM = 2.75 m STA = 2.6 m STB = 2.7 m.

#### 001V0688

Belt guide L = 4.02 m, for doors with max. surface of 15 m<sup>2</sup>.  
\*Max. door height:  
BM = 3.25 m STA = 3.1 m STB = 3.2 m.

#### 001V0687

Belt guide L = 3.02 m in two pieces, for doors with max. surface of 15 m<sup>2</sup>.  
\*Max. door height:  
BC = 2.4 m BM = 2.25 m STA = 2.1 m STB = 2.2 m.

### Chain guide

#### 001V0679

Chain guide L = 3.02 m. \* Max. door height:  
BC = 2.4 m BM = 2.25 m STA = 2.1 m STB = 2.2 m.

#### 001V0682

Chain guide L = 3.02 m. \* Max. door height:  
BM = 2.75 m STA = 2.6 m STB = 2.7 m.

#### 001V0683

Chain guide L = 4.02 m. \* Max. door height:  
BM = 3.25 m STA = 3.1 m STB = 3.2 m.

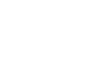
#### 001V0684

Chain guide L = 3.02 m in two pieces. \* Max. door height:  
BC = 2.4 m BM = 2.25 m STA = 2.1 m STB = 2.2 m.

### Accessories for: chain guides

#### 001V005

Extension for chain-type guide:  
001V0679 - 001V0682 - 001V0683 - 001V0684 L = 1.42 m.



### NOTES

\* BC = Counter-weighted overhead - BM = Spring-loaded overhead - STA = Sectional Type A - STB = Sectional Type B

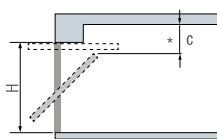
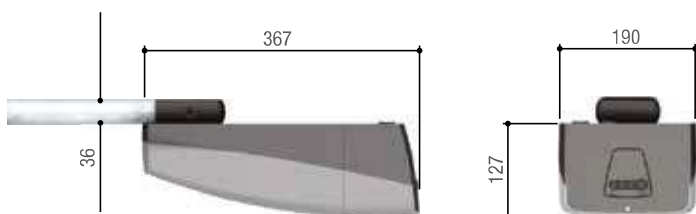
MAXIMUM DOOR SURFACE	PULL STRENGTH	DUTY CYCLE	TYPE/APPLICATION
12 m <sup>2</sup>	800 N	10 CYCLES/HOUR	PULLING

### Operator for sectional or up-and-over garage doors for residential settings

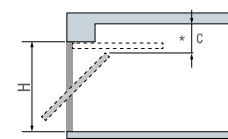
- 24 V DC systems with encoder to guarantee greater safety and reliability.
- The operator is fastened directly onto the drive guide.
- Silent and reliable sliding guides, available with chain or belt.
- Control board with separate and removable terminal blocks.
- Save up to 250 different users.
- Display for programming and viewing features.
- Integrated release lever, with the possibility of operating from the outside using the door handle.



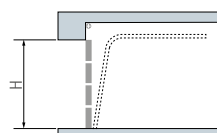
### Dimensions (mm)



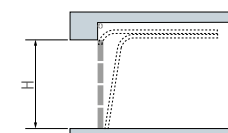
BC – Partially retracting, protruding overhead garage door. (con 001V201)



BM – Fully retracting, protruding overhead garage door.



STA - Sectional Type A door with single guide



STB - Sectional Type B door with double guide.

C-distance = Min. 60 mm.  
 H = Max. door height  
 \* = Maximum overall dimensions, in height, of the door during movement (at about 2/3 of opening)

### Operational limits

MODELS	801MV-0050	801MV-0060
Max. surface of the door (m <sup>2</sup> )	9	12
Max. traction force (N)	600	800

### Technical characteristics

MODELS	801MV-0050	801MV-0060
Protection rating (IP)	20	20
Power supply (V - 50/60 Hz)	230 AC	230 AC
Power supply to motor (V)	24 DC	24 DC
Cycles/Hour	10	10
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55
Manouvering speed (m/min)	6,6	8

Code	Description
<b>Complete operators with 24 V DC gearmotors, tested in compliance with regulatory standards EN 12453</b>	
<b>801MV-0050</b> 	VER06DES - Operator with encoder, featuring a control board with segmented graphic display, for sectional and overhead garage doors.
<b>801MV-0060</b> 	VER08DES - Operator with encoder, featuring a control board with segmented graphic display, for sectional and overhead garage doors.
<b>Accessories</b>	
001 <b>V121</b>	Pull-cord release and resetting device to fit on door handle. L = 3 m.
001 <b>V122</b>	Drive arm for sectional doors with the distance between the upper edge of the door and the shaft-spring assembly between 300 and 600 mm.
001 <b>V201</b>	Adapter arm for partially protruding overhead garage doors. Max. Door height: 2.4 m.
<b>Chain guide</b>	
001 <b>V06001</b>	Chain guide L = 3.02 m. *Max. door height: BC = 2.4 m - BM = 2.25 m - STA = 2.1 m.
001 <b>V06002</b>	Chain guide L = 3.52 m. * Max. door height: BM = 2.75 m - STA = 2.6 m STB = 2.7 m.
001 <b>V06003</b>	Chain guide L = 4.02 m. * Max. door height: BM = 3.25 m - STA = 3.1 m STB = 3.2 m.
<b>Belt guides</b>	
001 <b>V06005</b>	Belt guide L = 3.02 m. * Max. door height: BC = 2.4 m - BM = 2.25 m - STA = 2.1 m STB = 2.2 m.
001 <b>V06006</b>	Belt guide L = 3.52 m. * Max. door height: BM = 2.75 m - STA = 2.6 m STB = 2.7 m.
001 <b>V06007</b>	Belt guide L = 4.02 m. * Max. door height: BM = 3.25 m - STA = 3.1 m STB = 3.2 m.



NOTES

\* BC = Counter-weighted overhead - BM = Spring-loaded overhead - STA = Sectional Type A - STB = Sectional Type B  
ATTENTION 801MV-0050 - 801MV-0060 PRODUCTS AVAILABLE ONLY IN KITS. CONTACT THE SALES DEPARTMENT FOR INFORMATION.

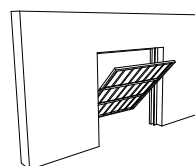
MAXIMUM DOOR SURFACE	SPEED	DUTY CYCLE	TYPE/APPLICATION
14 M <sup>2</sup>	ADJUSTABLE	HEAVY DUTY	ON THE DOOR

### Operator with direct fixing on the garage door

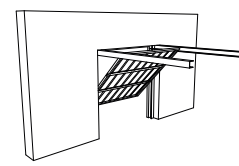
- Encoder-based movement control.
- Integrated release lever, with the possibility of operating from the outside using the door handle.
- Obstacle detection function, maneuver speed adjustment and opening and closing slow-down speed.
- Display for programming and viewing features, with LED for the operator diagnostics.



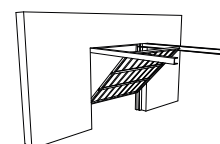
### Dimensions (mm)



Protruding and partially retracting overhead garage door



Protruding and fully retracting overhead garage door



Non-protruding fully retracting overhead garage door

### Operational limits

MODELS	EM4024CB	EM4024
Max. surface of the door (m <sup>2</sup> )	9	14 (in combination with: 001EM4024CB)

NOTES: For doors larger than 9 m<sup>2</sup> and up to 14 m<sup>2</sup>, use: 1 EM4024CB gearmotor + 1 EM4024 gearmotor

### Technical characteristics

MODELS	EM4024CB	EM4024
Protection rating (IP)	40	40
Power supply (V - 50/60 Hz)	230 AC	-
Power supply to motor (V)	24 DC	24 DC
Absorption (A)	15 Max.	15 Max.
Power (W)	73	70
Maneuvering time at 90° (s)	ADJUSTABLE	ADJUSTABLE
Duty/cycle (%)	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55

Code	Description
<b>Complete operators with 24 V DC gearmotors, tested in compliance with regulatory standards EN 12453</b>	
001 <b>EM4024CB</b> 	Irreversible operator with control board and segmented graphics display for doors measuring up to 9 m <sup>2</sup> .
<b>24 V DC gearmotors, tested in compliance with regulatory standards EN 12453</b>	
001 <b>EM4024</b> 	Irreversible gearmotor for pairing to the 001EM4024CB operator for extending the door's surface area up to 14 m <sup>2</sup> .
<b>Accessories for: 001EM4024CB</b>	
002 <b>LBEM40</b> 	Control card for operating during power outages and for recharging the batteries, with fastening brace.
<b>Accessories for: 001EM4024</b>	
001 <b>EM4001</b> 	LED control card for the courtesy light.
<b>Accessories</b>	
001 <b>V121</b>	Pull-cord release and resetting device to fit on door handle. L = 3 m.
001 <b>E781A</b>	Accessories for fitting the lateral reset.
001 <b>E782A</b>	Square drive tube 25 x 25 mm L = 3 m.
001 <b>E783</b>	Pair of folding drive arms.
001 <b>E784</b>	Long lever for hinged transmission arm for doors taller than 2.4 m.
001 <b>E785A</b>	Pair of straight telescopic arms with rectangular tube 40 x 10 mm.
001 <b>E786A</b>	Pair of curved telescopic arms with 40 x 10 mm rectangular tube.
001 <b>E787A</b>	Long tube for telescopic arms for doors with heights exceeding 2.4 m.



NOTES:  
002LBEM40 - Two 12 V – 1.3 Ah batteries (not supplied), on the 001EM4024CB - 001EM4024 there is a battery rack inside.