

# GAPOSA

Motors and Controls

**Gearing**  
REVOLUTION

**Control  
Systems**

**Door drives  
range**



**MAGLESS motor technology**



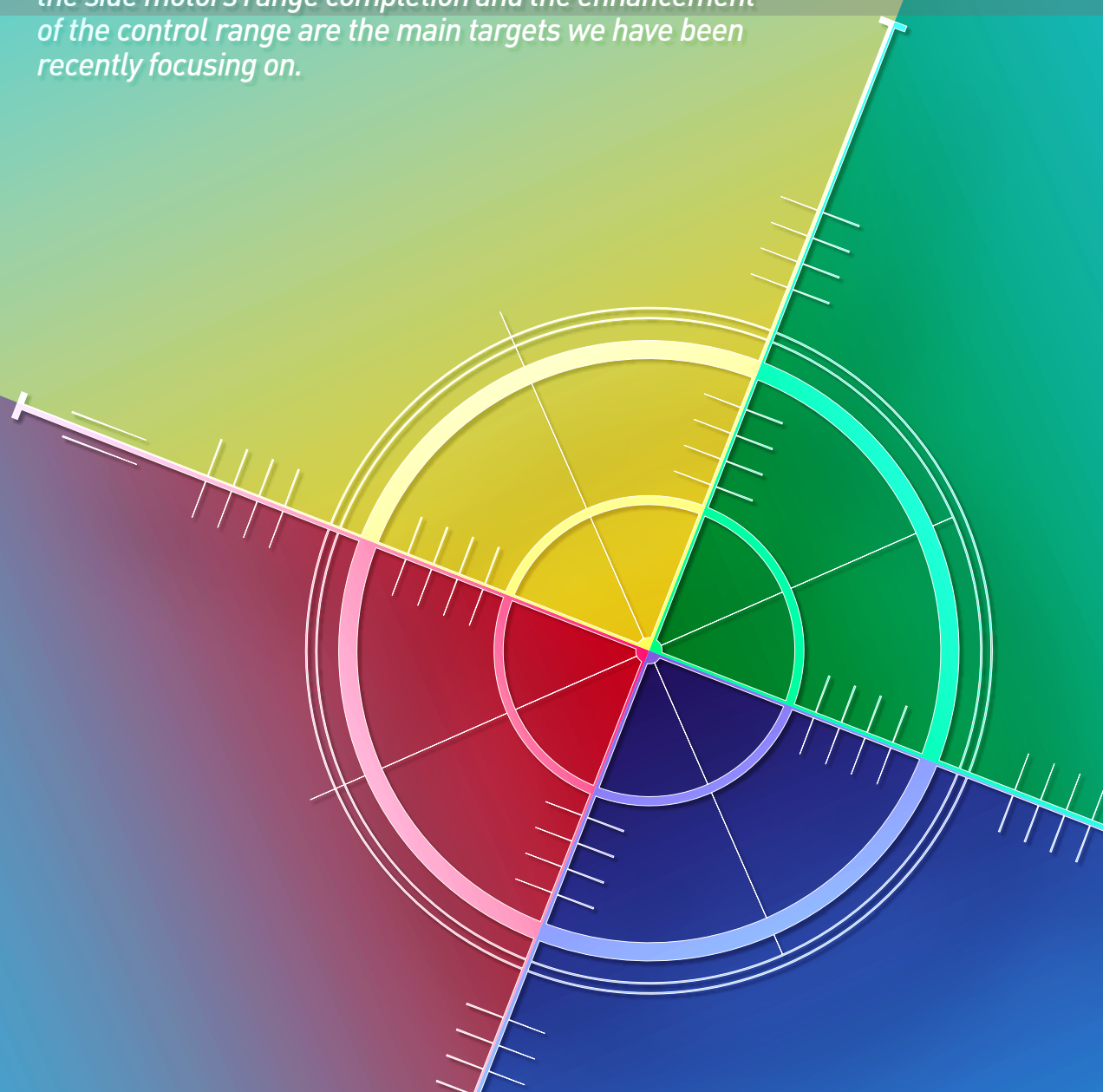


*Built around the motto “Home-tech in Progress”, this catalogue illustrates all the goals we have reached in the last years and the numerous projects we are still working on.*

*The challenge we daily face is the development of the best products meeting international requirements in the interior window treatment and the door industry.*

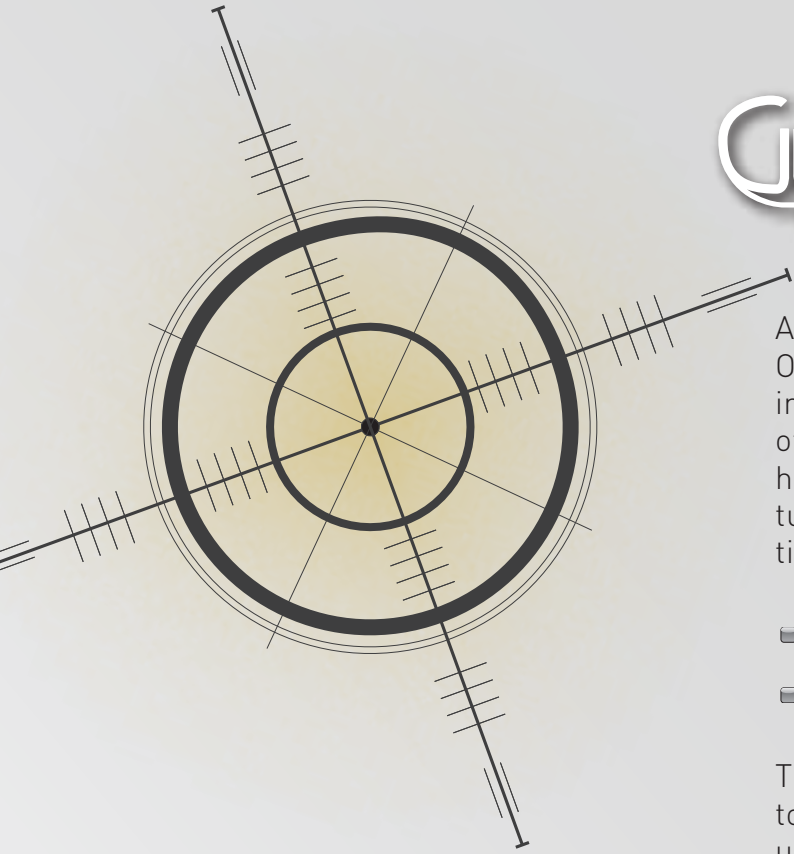
*The viewfinder in the cover page symbolizes the accuracy of our R&D Dpt. engineers in reaching the different planned targets. A team of technicians trained for the evolution of ideas, the experimentation of unique solutions and a strong desire for innovation.*

*The gearing revolution, the magless motor technology, the side motors range completion and the enhancement of the control range are the main targets we have been recently focusing on.*





# Gearing REVOLUTION



A true revolution in the tubular motor industry. Our gear is now the quietest technology for the interior window coverings industry. After 2 years of researches and tests, the engineering team has disclosed a new type of gear assembly for tubular motors, developed under the combination of different well mastered technologies.

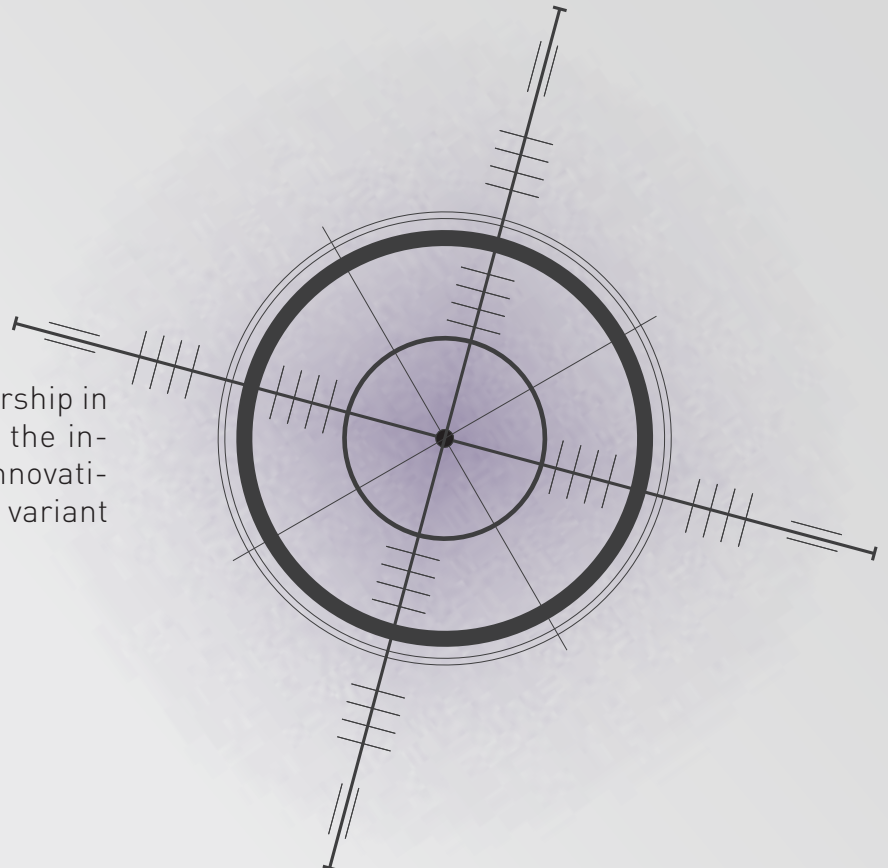
- **Quietness**
- **Load distribution**
- **High efficiency**
- **Large reduction**

These are the main features of the gear applied to upgrade the Sileo motors with a new range of ultra quiet tubular motors.



## MAGLESS motor technology

A confirmation of the technological leadership in manufacturing silent tubular motors for the interior window coverings industry is our innovative solution in the electrical field: a smart variant of the DC brushless technology.





## Door drives range

An ambitious plan of renovation and completion of the side motors range is in progress. Additional models of drives for shutters, sectional and garage doors with improved features like digital limits and a wide range of manual override systems are coming out.

**SZX** is the first result. Recently introduced in the market, this new range of motors for sectional doors is available in a variety of versions for the most different applications.

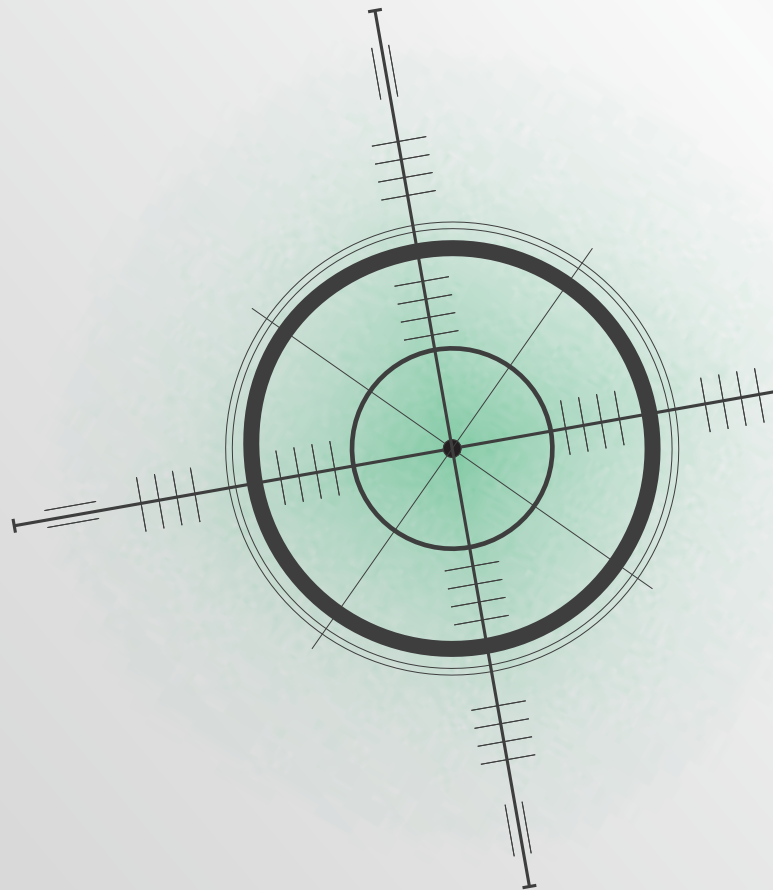
**SIDONE** consists now of 2 new ranges:

- *LP25012* the small direct drive motor with integrated safety brake: compact and powerful
- *LP7045* & *LP6090* direct drive motors with integrated safety brake for rapid roll doors: fast and lasting for heavy duty applications

## Control Systems

A separate electronic engineering team, part of Gapos group, is getting the various planned projects on electronics and controls ready:

- The range of radio motors at 868 MHz: for the best and most reliable in-house radio communication;
- The **roll.app**: a smart home system allowing to control shutters, shades/awnings, home appliances and climatic sensors through smart phones and tablets.
- A full range of new control units for industrial doors including multiple functions units to control our side motors according to the latest requirements of the market.





Patented Dec. 29, 1925.

1,5

# UNITED STATES PATENT OFFICE

CHARLES M. FAHNESTOCK, OF CINCINNATI, OHIO.

STEERING-ATTACHMENT MECHANISM.

Application filed November 27, 1922. Serial No. 603,643.

To all whom it may concern:

Be it known that I, CHARLES M. FAHNESTOCK, a citizen of the United States, residing at the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful improvements in Steering-Attachment Mechanism, of which the following is a specification.

My invention relates to the steering mechanism of automobiles and motor-driven vehicles.

The object of my invention is to prevent transmission to the steering wheel of the shocks upon the running gear, and thereby

control of his machine through encountering ruts, chuck-holes, and the like.

It is particularly applicable to that class of steering mechanism in which the relation of motion from the steering wheel to the running gear is accomplished through

to be controlled by the steering. Mounted on the body of the car against rotation in the usual manner cup shaped piece 10, the upper which is formed into an internal equivalent 12, and the lower part bearing for shaft 1.

A cap 14, with the bushing 15, on the piece 10, and forms the upper for the shaft 8, the collar 16 maintain the relation of housing 14. Within the housing, above the is a washer 17, and below the worm thrust washers 18-19. In the provided recesses 22, adapted

to mesh with the internal

and they mesh with the internal

and also mesh with the worm

are mounted on short shafts

or bearing in the housing

In the present instance I show

the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

then the shafts 20, I may use a less or

as found respectively or des

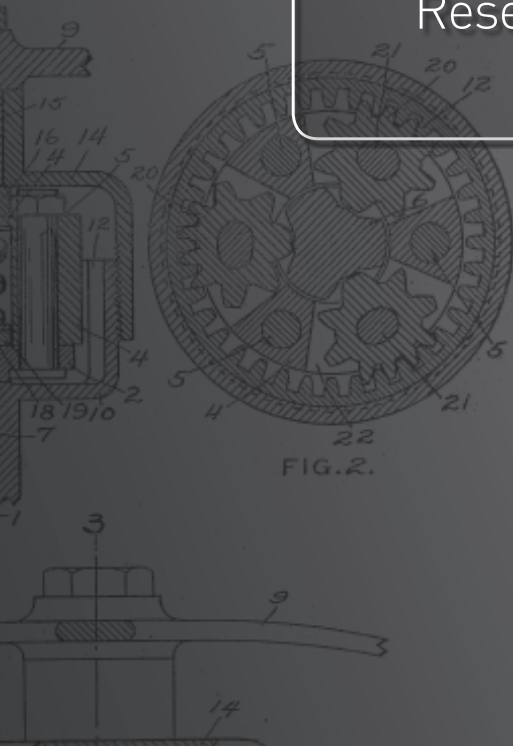
then the shafts 20, I may use a less or

as found respectively or des

“Certain great ideas are timeless. In mechanics, where everything has already been invented, the challenge is to identify the most promising one, to apply it to your field and to persevere”.

Gaposa  
Research & Development Center

C. M. FAHNESTOCK  
STEERING ATTACHMENT MECHANISM  
Filed Nov. 27, 1922



# SUMMARY

## Window coverings motorisation

11 Residential motorisations

49 Accessories  
60 Selection tables

63 Controls and devices



## Drives and controls for industrial and commercial doors

87 Industrial and commercial motorisations

119 Safety brakes

127 Controls and devices

141 Accessories

144 General terms of sale



The Gaposa engineering R&D team continuously innovates to increase the level of simplicity and ease of use...





# Window coverings motorisation

---



12 **XS DC SuperSileo - Overview**  
13 XS 40 DC  
13 XS 50 DC  
14 **XS SuperSileo - Overview**  
16 XS 40  
18 **XQ Sileo - Overview**  
20 XQ Sileo 40  
22 XQ Sileo 50  
27 **XQ - Overview**  
30 XQ40  
32 XQ50  
40 XQ60  
44 Special motors

### **Adapters**

49 40 range motors adapters  
50 50 range motors adapters  
52 60 range motors adapters

### **Brackets**

53 40 range motors brackets  
53 50 range motors brackets  
55 60 range motors brackets  
56 Manual override brackets  
  
57 Manual override accessories  
  
59 Additional accessories  
  
60 Selection tables



# Ultra quiet tubular motors **low voltage** range (24V)

*Improving  
the acoustics  
standard*

*Generating  
comfort*



*Engineered with  
breakthrough gear technology*



*MAGLESS technology  
The ultimate in DC electric motors*

*Sound level  
below 40dB*

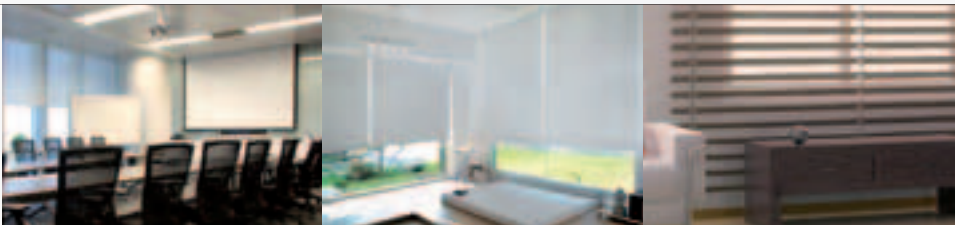


*Reduced electricity  
consumption by 50%  
(compared with AC type)*



*Secure radio transmission*

Video-projection Screens, Blinds and Venetian blinds



# XS40 DC



Dry contacts  
or  
Digital data

3 buttons + 2 leds  
for an easy setting

# XS50 DC



Dry contacts  
or  
Digital data

3 buttons + 2 leds  
for an easy setting

## Main features

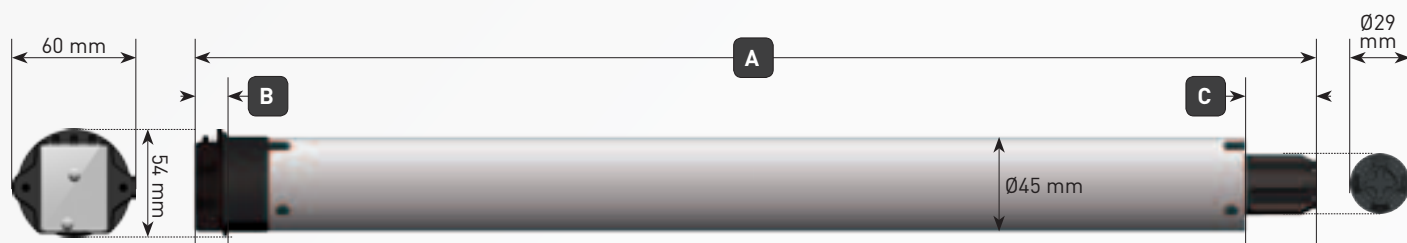
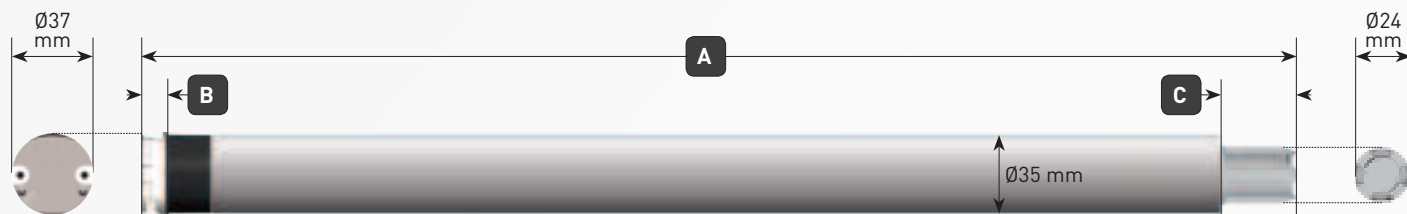
Power Supply (V)	24
Standard cable length (m)	2.5
Wires	2x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	10
Protection (IP)	30

## Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XS4EX226DC</b>	2	26	36	1.5	55
<b>XS4D226DC</b>	2	26	36	1.5	55
<b>XS5EX425DC</b>	4	25	41	1.7	55
<b>XS5D425DC</b>	4	25	41	1.7	55

## Dimensions

	Segment		
	A	B	C
XS4EX226DC	483	13	35
XS4D226DC	483	13	35
XS5EX425DC	456	16	34
XS5D425DC	456	16	34



# SUPER Qileo XS



## Ultra quiet tubular motors line voltage range

*Improving  
the acoustics  
standard*

*Generating  
comfort*



*Engineered with breakthrough gear technology*

*Sound level  
below 40dB*

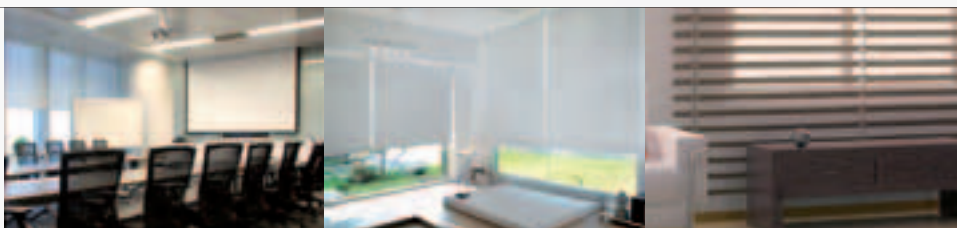


*Test protocol: no load / clockwise  
& counter clockwise rotation*



*Secure radio transmission*

Video-projection Screens, Blinds and Venetian blinds





## P

The P version motors are the traditionally called “mechanical limit switch motors”, provided with 2 limit switch adjustment screws for an easy and intuitive setting.

Advantages and main features:

- ▶ Universally recognized limit setting system
- ▶ Micrometric limit position adjustment
- ▶ Protection against limit overturning
- ▶ Plug-in cable (XS50)
- ▶ Noiseless soft brake

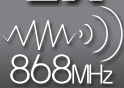
## E

The E version identifies electronic encoded motors offering precise operation with a high rate of limit setting accuracy.

Advantages and main features:

- ▶ Easy limit adjustment via the setting tool with no need to access the motor
- ▶ Direct limit setting through the button on the head (XS50)
- ▶ Several Gapos electronic motors can be connected in parallel without additional switching units
- ▶ Up and down directions are detected automatically
- ▶ Plug-in cable (XS50)
- ▶ Noiseless soft brake

## EX



The EX-ER versions identify electronic encoded motors with built-in radio receiver offering to the end-users remote control capabilities while performing all the features of the E motors type. The EX-ER radio motors match with all Gapos transmitters.

Advantages and main features:

## ER



- ▶ Easy limit setting via radio or the setting button on the head (XS50)
- ▶ Secure radio transmission
- ▶ Easy set up of group controls – modifiable any time it is required
- ▶ Up and down directions are detected automatically (EX version)
- ▶ Wireless connection with climatic sensors
- ▶ Full integration with GAPOSA roll.app smart home system (868 MHz EX range)
- ▶ Plug-in cable (XS50)
- ▶ Noiseless soft brake

# XS 40

# SUPER Gileo



Engineered with  
breakthrough gear  
technology.



868MHz

## XS4 EX

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**

434MHz

## XS4 ER

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor use, sound level: 40dB
- ▶ Easy and accurate limit setting via transmitter
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ XS4EX620 suitable for venetian blinds (tilting function)

### Main features

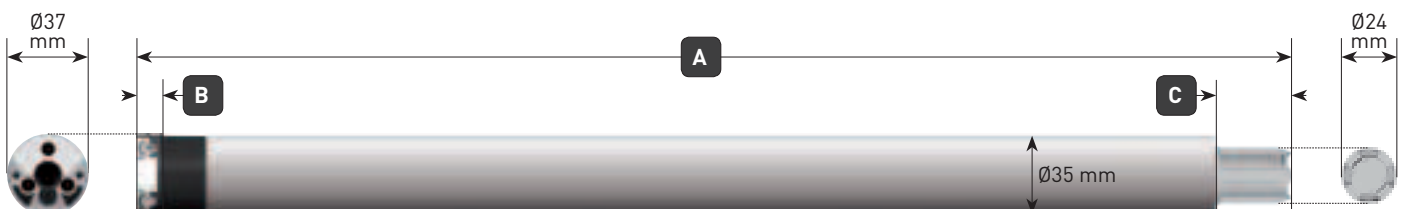
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XS4EX330</b>	3	30	90	0.40	160
<b>XS4EX620</b>	6	20	120	0.60	160
<b>XS4ER330</b>	3	30	90	0.40	160
<b>XS4ER620</b>	6	20	120	0.60	160

### Dimensions

	Segment		
	A	B	C
601	12	35	
633	12	35	
601	12	35	
633	12	35	





SUPER Gileo



Engineered with breakthrough gear technology.



## XS4 E

### ELECTRONIC ENCODED TUBULAR MOTORS

- ▶ For indoor use, sound level: 40dB
- ▶ Easy and accurate limit adjustment via the setting tool
- ▶ XS4E620 suitable for venetian blinds

## XS4 P

### MECHANICAL LIMIT SWITCH TUBULAR MOTORS

- ▶ For indoor use, sound level: 40dB
- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with the range of control units for residential applications

#### Main features

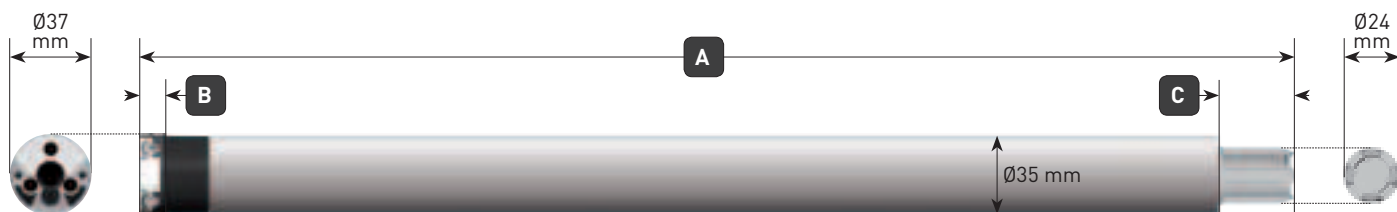
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XS4E330</b>	3	30	90	0.40	160
<b>XS4E620</b>	6	20	120	0.60	160
<b>XS4P330</b>	3	30	90	0.40	40
<b>XS4P620</b>	6	20	120	0.60	40

#### Dimensions

	Segment		
	A	B	C
	601	12	35
	633	12	35
	511	12	35
	543	12	35





## Quiet tubular motors line voltage range

XQ Sileo is the 1<sup>st</sup> generation of quiet motors and represents a clear example of the high level we offer as standard

---

*Only the new range of XS Super Sileo motors with the exclusive “gearing revolution” technology is able today to raise the standard to higher comfort levels*

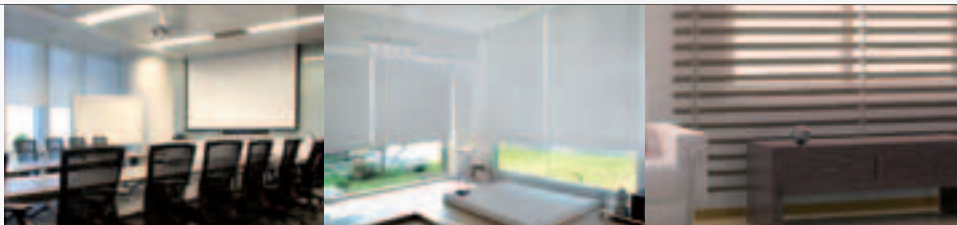


*Gear module combination:  
an exclusive technology*



*Secure radio transmission*

Video-projection Screens, Blinds and Venetian blinds



## P

The P version motors are the traditionally called “mechanical limit switch motors”, provided with 2 limit switch adjustment screws for an easy and intuitive setting.

Advantages and main features:

- ▶ Universally recognized limit setting system
- ▶ Micrometric limit position adjustment
- ▶ Protection against limit overturning
- ▶ Plug-in cable (XQ50)
- ▶ Noiseless soft brake

## E

The E version identifies electronic encoded motors offering precise operation with a high rate of limit setting accuracy.

Advantages and main features:

- ▶ Easy limit adjustment via the setting tool with no need to access the motor
- ▶ Direct limit setting through the button on the head (XQ50)
- ▶ Several Gapos electronic motors can be connected in parallel without additional switching units
- ▶ Up and down directions are detected automatically
- ▶ Plug-in cable (XQ50)
- ▶ Noiseless soft brake

## EX

868MHz

## ER

434MHz

The EX-ER versions identify electronic encoded motors with built-in radio receiver offering to the end-users remote control capabilities while performing all the features of the E motors type. The EX-ER radio motors match with all Gapos transmitters.

Advantages and main features:

- ▶ Easy limit setting via radio or the setting button on the head (XQ50)
- ▶ Secure radio transmission
- ▶ Easy set up of group controls – modifiable any time it is required
- ▶ Up and down directions are detected automatically (EX version)
- ▶ Wireless connection with climatic sensors
- ▶ Full integration with GAPOSA roll.app smart home system (868 MHz EX range)
- ▶ Plug-in cable (XQ50)
- ▶ Noiseless soft brake

## PX

868MHz

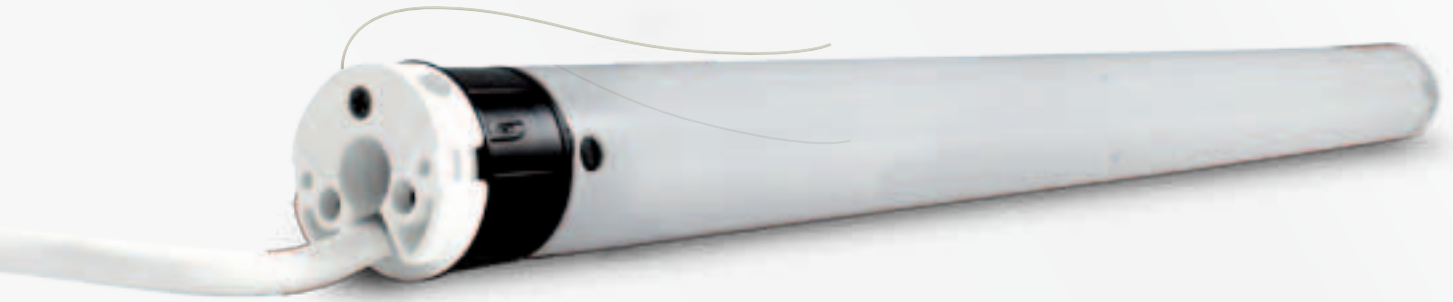
## PR

434MHz

The PX-PR versions identify mechanical limit switch motors with built-in radio receiver offering all the advantages of the traditional motors with 2 limit switch adjustment screws and of the remote control capabilities. The PX-PR radio motors match with all the Gapos transmitters.

Advantages and main features:

- ▶ Universally recognized limit setting system
- ▶ Secure radio transmission
- ▶ Easy set up of group controls – modifiable any time it is required
- ▶ Wireless connection with climatic sensors
- ▶ Full integration with GAPOSA roll.app smart home system (868 MHz EX range)
- ▶ Plug-in cable (XQ50)
- ▶ Noiseless soft brake



868MHz

## XQ4 EX

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**

434MHz

## XQ4 ER

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor/outdoor use, sound level: 42dB
- ▶ Easy and accurate limit setting via transmitter
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ XQ4EX914 suitable for venetian blinds (tilting function)

### Main features

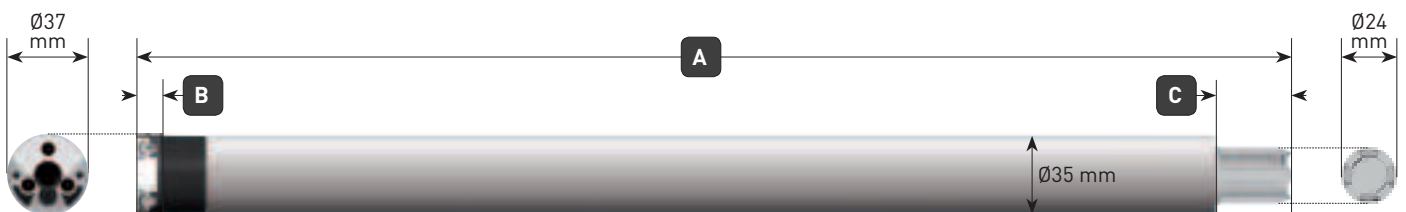
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

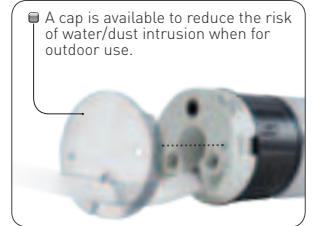
	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ4EX148</b>	1	48	90	0.40	160
<b>XQ4EX333</b>	3	33	90	0.40	160
<b>XQ4EX426</b>	4	26	90	0.40	160
<b>XQ4EX914</b>	9	14	120	0.60	160
<b>XQ4ER148</b>	1	48	90	0.40	160
<b>XQ4ER333</b>	3	33	90	0.40	160
<b>XQ4ER426</b>	4	26	90	0.40	160
<b>XQ4ER914</b>	9	14	120	0.60	160

### Dimensions

	Segment		
	A	B	C
<b>XQ4EX148</b>	581	12	35
<b>XQ4EX333</b>	601	12	35
<b>XQ4EX426</b>	601	12	35
<b>XQ4EX914</b>	621	12	35
<b>XQ4ER148</b>	581	12	35
<b>XQ4ER333</b>	601	12	35
<b>XQ4ER426</b>	601	12	35
<b>XQ4ER914</b>	621	12	35







## XQ4E

### ELECTRONIC ENCODED TUBULAR MOTORS

- ▶ For indoor/outdoor use, sound level: 42dB
- ▶ Easy and accurate limit adjustment via the setting tool
- ▶ XQ4E914 suitable for venetian blinds

## XQ4P

### MECHANICAL LIMIT SWITCH TUBULAR MOTORS

- ▶ For indoor/outdoor use, sound level: 42dB
- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with the range of control units for residential applications

#### Main features

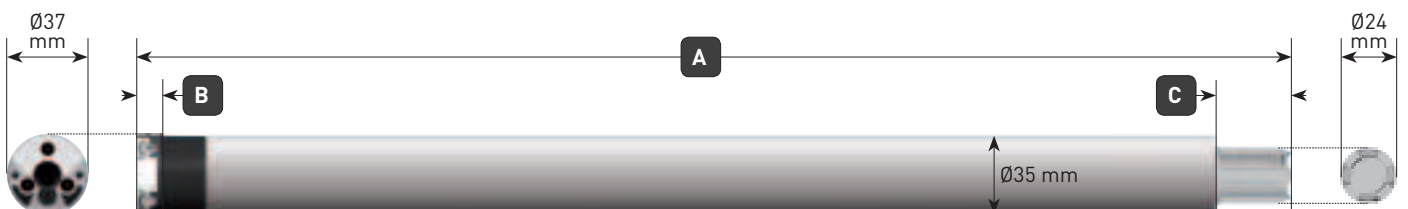
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ4E148</b>	1	48	90	0.40	160
<b>XQ4E333</b>	3	33	90	0.40	160
<b>XQ4E426</b>	4	26	90	0.40	160
<b>XQ4E914</b>	9	14	120	0.60	160
<b>XQ4P148</b>	1	48	90	0.40	40
<b>XQ4P226</b>	2	26	105	0.50	40
<b>XQ4P333</b>	3	33	90	0.40	40
<b>XQ4P426</b>	4	26	90	0.40	40
<b>XQ4P914</b>	9	14	120	0.60	40

#### Dimensions

	Segment		
	A	B	C
	581	12	35
	601	12	35
	601	12	35
	621	12	35
	491	12	35
	491	12	35
	511	12	35
	511	12	35
	531	12	35





## XQ5 EX

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**



## XQ5 ER

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor/outdoor use, sound level: 41dB
- ▶ Easy and accurate limit setting via transmitter
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ Plug-in cable

### Main features

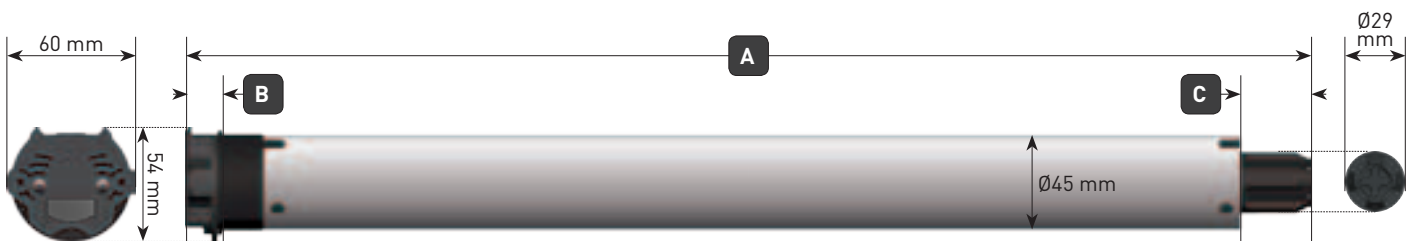
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

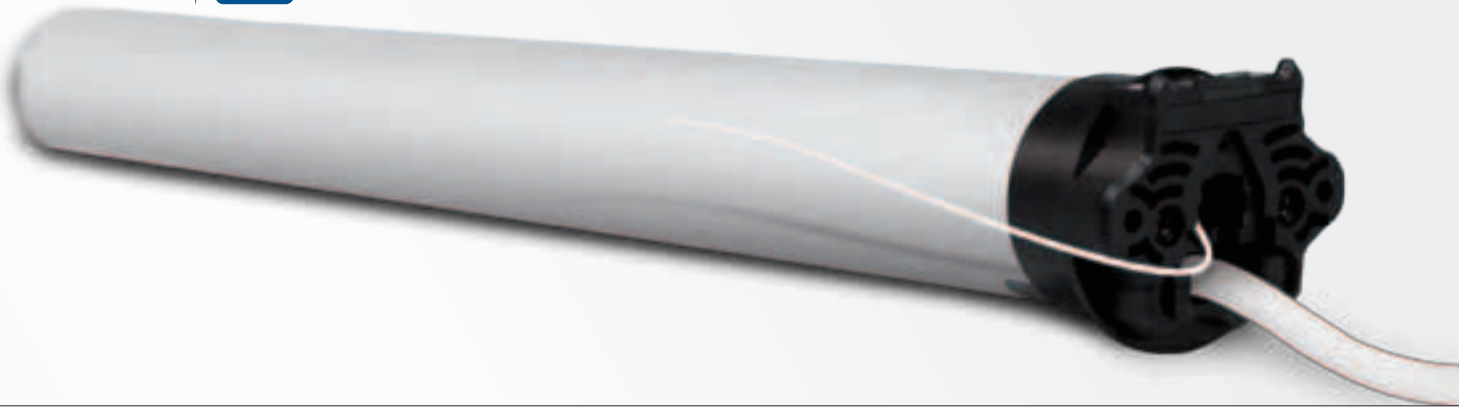
### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5EX438</b>	4	38	130	0.60	80
<b>XQ5EX626</b>	6	26	130	0.60	80
<b>XQ5EX674</b>	6	74	253	1.20	80
<b>XQ5EX926</b>	9	26	184	0.80	80
<b>XQ5EX1530</b>	15	30	250	1.10	80
<b>XQ5ER438</b>	4	38	130	0.60	80
<b>XQ5ER626</b>	6	26	130	0.60	80
<b>XQ5ER674</b>	6	74	253	1.20	80
<b>XQ5ER926</b>	9	26	184	0.80	80
<b>XQ5ER1530</b>	15	30	250	1.10	80

### Dimensions

	Segment		
	A	B	C
	543	18	34
	543	18	34
	582	18	34
	573	18	34
	602	18	34
	543	18	34
	543	18	34
	582	18	34
	573	18	34
	602	18	34





## XQ5 PX

**MECHANICAL LIMIT SWITCH TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**



## XQ5 PR

**MECHANICAL LIMIT SWITCH TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor/outdoor use, sound level: 41dB
- ▶ Easy and intuitive limit setting
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ Plug-in cable

### Main features

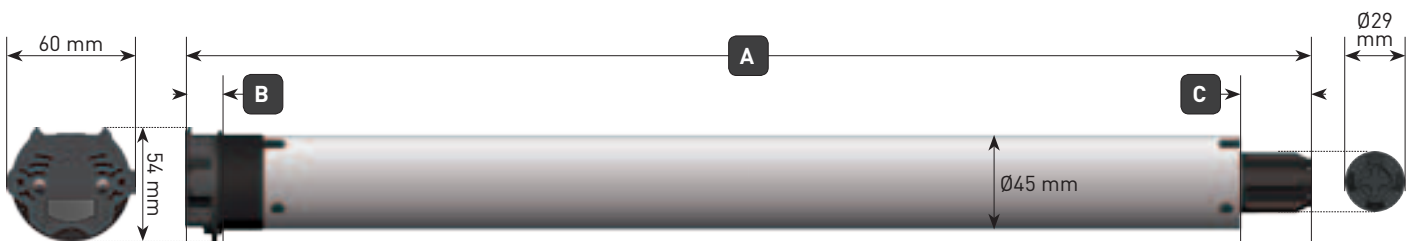
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5PX438</b>	4	38	130	0.60	28
<b>XQ5PX626</b>	6	26	130	0.60	28
<b>XQ5PX674</b>	6	74	253	1.20	28
<b>XQ5PX926</b>	9	26	184	0.80	28
<b>XQ5PX1530</b>	15	30	250	1.10	28
<b>XQ5PR438</b>	4	38	130	0.60	28
<b>XQ5PR626</b>	6	26	130	0.60	28
<b>XQ5PR674</b>	6	74	253	1.20	28
<b>XQ5PR926</b>	9	26	184	0.80	28
<b>XQ5PR1530</b>	15	30	250	1.10	28

### Dimensions

Segment		
A	B	C
686	18	34
686	18	34
721	18	34
686	18	34
721	18	34
686	18	34
686	18	34
721	18	34
686	18	34
721	18	34





## XQ5 E

### ELECTRONIC ENCODED TUBULAR MOTORS

- ▶ For indoor/outdoor use, sound level: 41dB
- ▶ Easy and accurate limit adjustment
- ▶ Plug-in cable

## XQ5 P

### MECHANICAL LIMIT SWITCH TUBULAR MOTORS

- ▶ For indoor/outdoor use, sound level: 41dB
- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with the range of control units for residential applications
- ▶ Plug-in cable

#### Main features

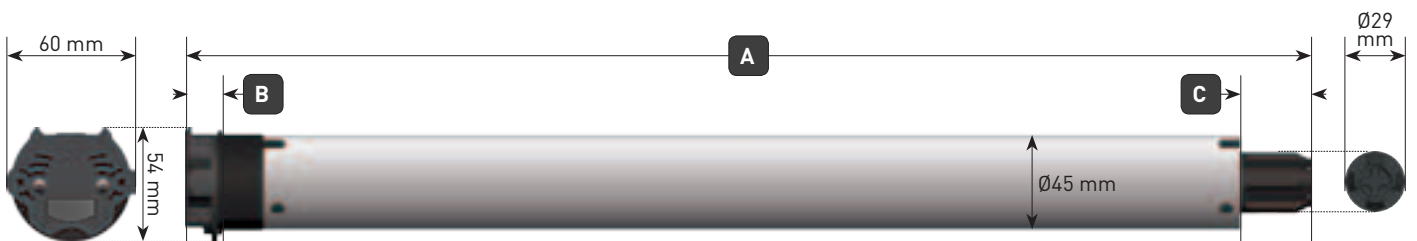
Power Supply (V-)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5E438</b>	4	38	130	0.60	80
<b>XQ5E626</b>	6	26	130	0.60	80
<b>XQ5E674</b>	6	74	253	1.20	80
<b>XQ5E926</b>	9	26	184	0.80	80
<b>XQ5E1530</b>	15	30	250	1.10	80
<b>XQ5P326</b>	3	26	112	0.50	28
<b>XQ5P438</b>	4	38	130	0.60	28
<b>XQ5P626</b>	6	26	130	0.60	28
<b>XQ5P674</b>	6	74	253	1.20	28
<b>XQ5P926</b>	9	26	184	0.80	28
<b>XQ5P1530</b>	15	30	250	1.10	28

#### Dimensions

	Segment		
	A	B	C
	543	18	34
	543	18	34
	582	18	34
	573	18	34
	602	18	34
	504	18	34
	504	18	34
	504	18	34
	544	18	34
	534	18	34
	564	18	34





---

A series of horizontal dotted lines for writing, spanning the width of the page.







# The universal line voltage range of tubular motors

for rolling shutters, awning and garage doors:  
the perfect solution for any application



The widest choice of models in terms of torque/speed



*Gear module combination:  
an exclusive technology*



Classic, advanced and specific versions like the **AUTO stop** or the **S types** belong to this range



A range of motors for large awnings and garage doors with a robust and powerful new design and a reduced motor sound level as well as a compact head profile



*Secure radio transmission*

Shutters, Awnings and Garage doors



## P

The P version motors are the traditionally called “mechanical limit switch motors”, provided with 2 limit switch adjustment screws for an easy and intuitive setting.

Advantages and main features:

- ▶ Universally recognized limit setting system
- ▶ Micrometric limit position adjustment
- ▶ Protection against limit overturning
- ▶ Plug-in cable (XQ50)
- ▶ Noiseless soft brake

## E

The E version identifies electronic encoded motors offering precise operation with a high rate of limit setting accuracy. The use of security blocks protects roller shutters from intrusions.

Advantages and main features:

- ▶ Obstacle detection in down direction and reverse function
- ▶ Easy limit adjustment via the setting tool with no need to access the motor
- ▶ Direct limit setting through the button on the head (XQ50 and XQ60)
- ▶ Overload cut-off if torque exceeds when raising the shutter (e.g. the roller shutter is frozen)
- ▶ Several Gaposa electronic motors can be connected in parallel without additional switching units
- ▶ Up and down directions are detected automatically
- ▶ Plug-in cable (XQ50 - XQ60)

Selectable functions during the limit setting:

- ▶ Without mechanical upper blocks: position shut-off.
- ▶ With mechanical upper blocks: soft approach to the shutter box/cassette awning with automatic release function (fabric stretching or shutter elongations are automatically compensated by the encoder and no additional limit adjustment is required)
- ▶ With mechanical down blocks: the use of security blocks protects roller shutters from intrusions.

## AUTO STOP

The AUTO stop version for rolling shutters features a self learning limit position protocol allowing an easy and quick installation: no limit setting procedure is required.

The AUTO stop motors require torque stops (mechanical blocks) in up and down limits.

The T type offers reverse function after stopping.

Advantages and main features:

- ▶ Quick installation and setting
- ▶ Length compensation of the shutter
- ▶ Obstacle detection in up or down direction (eg. frozen shutter)
- ▶ Roller shutter protection from damages
- ▶ Plug-in cable (A type)

## S

The S type is an electronic encoded motor expressly designed to ensure that the awning always closes gently against the cassette. A reverse function in the protocol is tuned at some milliseconds reducing the stress on the fabric without releasing the cassette.

Advantages and main features:

- ▶ No awning adjustment is required as the fabric stretches
- ▶ Easy setting of the limit positions using the limit setting buttons tool
- ▶ Direct setting of the limits through the button on the head
- ▶ External limit switches not required
- ▶ Overload protection while the awning is wound up
- ▶ Several Gaposa electronic motors can be connected in parallel without additional switching units
- ▶ Up and down directions are detected automatically
- ▶ Smooth stop at the upper limit of the awning
- ▶ Plug-in cable (XQ50 - XQ60)



The EX-SX/ER-SR versions identify electronic encoded motors with built-in radio receiver offering to the end-users remote control capabilities while performing all the features of the E motors type. The EX-SX/ER-SR radio motors match with all Gaposa transmitters.

Advantages and main features:

- ▶ Easy limit setting via radio or the setting button on the head (XQ50 and XQ60)
- ▶ Secure radio transmission
- ▶ Easy set up of group controls – modifiable any time it is required
- ▶ Up and down directions are detected automatically (EX)
- ▶ Overload cut-off if torque exceeds when raising the shutter (e.g. the roller shutter is frozen)
- ▶ Wireless connection with climatic sensors
- ▶ Full integration with GAPOSA roll.app smart home system (868 MHz EX/SX range)
- ▶ Plug-in cable (XQ50 - XQ60)



Selectable functions during the limit setting:

- ▶ Without mechanical upper blocks: position shut-off.
- ▶ With mechanical upper blocks: soft approach to the shutter box/cassette awning with automatic release function (fabric stretching or shutter elongations are automatically compensated by the encoder and no additional blocks adjustment is required)
- ▶ With mechanical down blocks: the use of security blocks protects roller shutters from intrusions.



The PX-PR versions identify mechanical limit switch motors with built-in radio receiver offering all the advantages of the traditional motors with 2 limit switch adjustment screws and of the remote control capabilities. The PX-PR radio motors match with all the Gaposa transmitters.

Advantages and main features:



- ▶ An easy and intuitive limit setting
- ▶ Secure 868 MHz radio transmission (PX)
- ▶ Easy set up of group controls – modifiable any time it is required
- ▶ Wireless connection with climatic sensors
- ▶ Full integration with GAPOSA roll.app smart home system (868 MHz PX range)
- ▶ Plug-in cable (XQ50 - XQ60)



The M version identifies motors with manual override for the control of shutters, roller grills, roller gates and big awnings. In case of power failure the motors can be operated easily by a handle crank. The compact design allows installation in limited spaces and the adjustment screws have a double access for an easy setting everywhere. The gear of the override is independent from the motor so there is no risks if the motor runs electrically while manually operating the crank handle.

Advantages and main features:

- ▶ Operability in any circumstances via manual override
- ▶ Strong head construction
- ▶ Micrometric limit position adjustment
- ▶ Protection against limit overturning



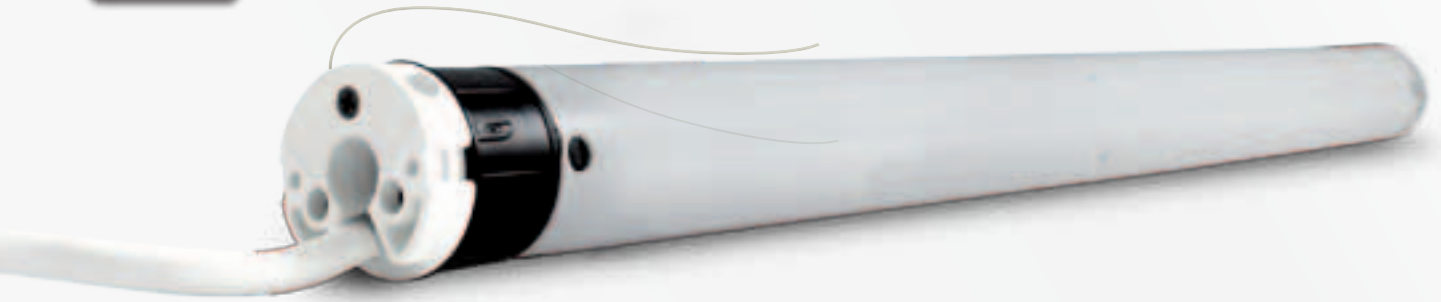
The MX-MR versions are manual override motors with built-in radio receiver. These motors offer all the advantages of the manual override motors with the addition of the remote control capabilities. The MX-MR radio motors match with all Gaposa transmitter.

Advantages and main features:



- ▶ An easy and intuitive setting of the limit positions
- ▶ Secure 868 MHz radio transmission (MX)
- ▶ Easy set up of group controls – modifiable any time it is required
- ▶ Wireless connection with climatic sensors
- ▶ Full integration with GAPOSA roll.app smart home system (868 MHz MX range)

# XQ40



868MHz

## XQ4 EX

**ELECTRONIC ENCODED TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

434MHz

## XQ4 ER

**ELECTRONIC ENCODED TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor/outdoor use
- ▶ Easy and accurate limit setting via transmitter
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors

### Main features

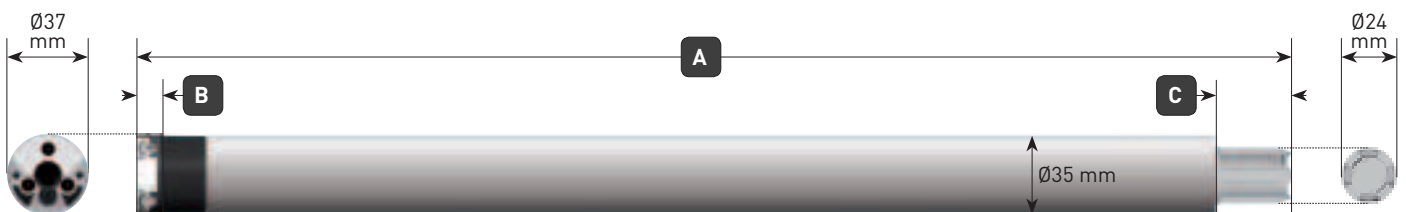
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

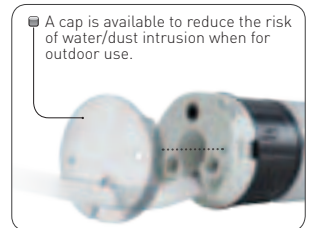
### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ4EX414</b>	4	14	90	0.40	160
<b>XQ4EX518</b>	5	18	90	0.40	160
<b>XQ4EX914</b>	9	14	120	0.60	160
<b>XQ4EX129</b>	12	9	120	0.60	160
<b>XQ4ER414</b>	4	14	90	0.40	160
<b>XQ4ER518</b>	5	18	90	0.40	160
<b>XQ4ER914</b>	9	14	120	0.60	160
<b>XQ4ER129</b>	12	9	120	0.60	160

### Dimensions

	Segment		
	A	B	C
601	12	35	
601	12	35	
621	12	35	
621	12	35	
601	12	35	
601	12	35	
621	12	35	
621	12	35	





## XQ4E

### ELECTRONIC ENCODED TUBULAR MOTORS

- ▶ For indoor/outdoor use
- ▶ Easy and accurate limit adjustment via the setting tool
- ▶ Several motors can be connected in parallel

## XQ4P

### MECHANICAL LIMIT SWITCH TUBULAR MOTORS

- ▶ For indoor/outdoor use
- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with the range of control units for residential applications

#### Main features

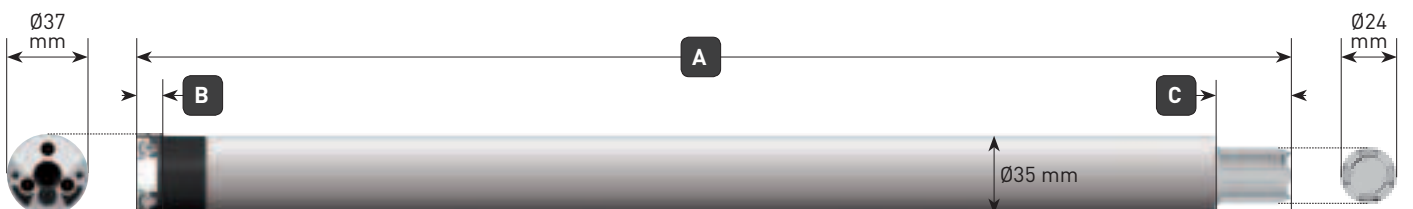
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ4E414</b>	4	14	90	0.40	160
<b>XQ4E518</b>	5	18	90	0.40	160
<b>XQ4E914</b>	9	14	120	0.60	160
<b>XQ4E129</b>	12	9	120	0.60	160
<b>XQ4P414</b>	4	14	90	0.40	40
<b>XQ4P518</b>	5	18	90	0.40	40
<b>XQ4P914</b>	9	14	120	0.60	40
<b>XQ4P129</b>	12	9	120	0.60	40

#### Dimensions

Segment		
A	B	C
601	12	35
601	12	35
621	12	35
621	12	35
511	12	35
511	12	35
531	12	35
531	12	35





# XQ50



## XQ5 EX

**ELECTRONIC ENCODED TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**



## XQ5 ER

**ELECTRONIC ENCODED TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor/outdoor use
- ▶ Easy and accurate limit setting via transmitter
- ▶ Obstacle detection in down direction and reverse function
- ▶ Overload cut-off if torque exceeds when raising the shutter
- ▶ Compatible with all the ranges of Gaposla transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ Plug-in cable

### Main features

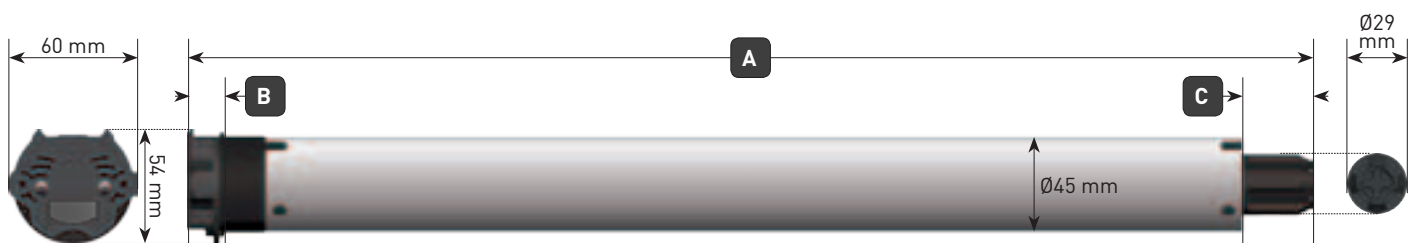
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5EX617</b>	6	17	137	0.60	80
<b>XQ5EX1017</b>	10	17	156	0.70	80
<b>XQ5EX1317</b>	13	17	184	0.80	80
<b>XQ5EX2017</b>	20	17	184	0.80	80
<b>XQ5EX3017</b>	30	17	253	1.20	80
<b>XQ5EX4017</b>	40	17	322	1.50	80
<b>XQ5EX5014</b>	50	14	322	1.50	80
<b>XQ5ER617</b>	6	17	137	0.60	80
<b>XQ5ER1017</b>	10	17	156	0.70	80
<b>XQ5ER1317</b>	13	17	184	0.80	80
<b>XQ5ER2017</b>	20	17	184	0.80	80
<b>XQ5ER3017</b>	30	17	253	1.20	80
<b>XQ5ER4017</b>	40	17	322	1.50	80
<b>XQ5ER5014</b>	50	14	322	1.50	80

### Dimensions

	Segment		
	A	B	C
	538	18	34
	543	18	34
	567	18	34
	567	18	34
	602	18	34
	607	18	34
	607	18	34
	538	18	34
	543	18	34
	567	18	34
	567	18	34
	602	18	34
	607	18	34
	607	18	34



# XQ 50



## XQ5PX

**MECHANICAL LIMIT SWITCH TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**



## XQ5PR

**MECHANICAL LIMIT SWITCH TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ For indoor/outdoor use
- ▶ Easy and intuitive limit setting
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ Plug-in cable

### Main features

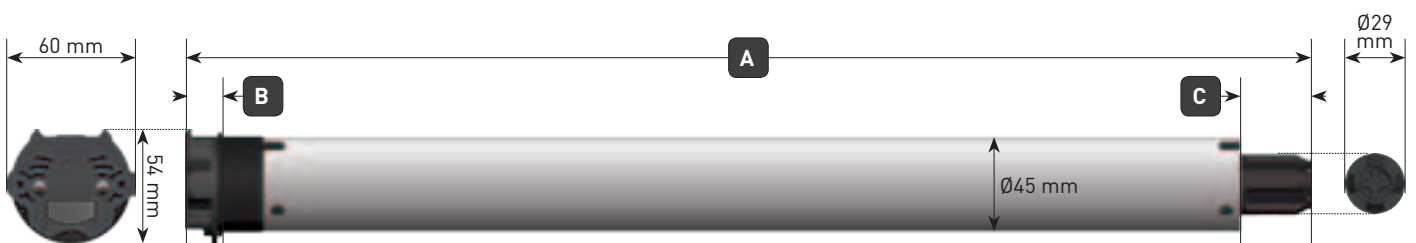
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5PX617</b>	6	17	137	0.60	28
<b>XQ5PX1017</b>	10	17	156	0.70	28
<b>XQ5PX1317</b>	13	17	184	0.80	28
<b>XQ5PX2017</b>	20	17	184	0.80	28
<b>XQ5PX3017</b>	30	17	253	1.20	28
<b>XQ5PX4017</b>	40	17	322	1.50	28
<b>XQ5PX5014</b>	50	14	322	1.50	28
<b>XQ5PR617</b>	6	17	137	0.60	28
<b>XQ5PR1017</b>	10	17	156	0.70	28
<b>XQ5PR1317</b>	13	17	184	0.80	28
<b>XQ5PR2017</b>	20	17	184	0.80	28
<b>XQ5PR3017</b>	30	17	253	1.20	28
<b>XQ5PR4017</b>	40	17	322	1.50	28
<b>XQ5PR5014</b>	50	14	322	1.50	28

### Dimensions

	Segment		
	A	B	C
	686	18	34
	686	18	34
	686	18	34
	686	18	34
	721	18	34
	721	18	34
	721	18	34
	686	18	34
	686	18	34
	686	18	34
	686	18	34
	721	18	34
	721	18	34
	721	18	34







## XQ5E

### ELECTRONIC ENCODED TUBULAR MOTORS

- ▶ For indoor/outdoor use
- ▶ Easy and accurate limit adjustment via the setting tool
- ▶ Direct setting of the limit through the button on the head
- ▶ Obstacle detection in down direction and reverse function
- ▶ Overload cut-off if torque exceeds when raising the shutter
- ▶ Several motors can be connected in parallel
- ▶ Plug-in cable

## XQ5P

### MECHANICAL LIMIT SWITCH TUBULAR MOTORS

- ▶ For indoor/outdoor use
- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with the range of control units for residential applications
- ▶ Plug-in cable

#### Main features

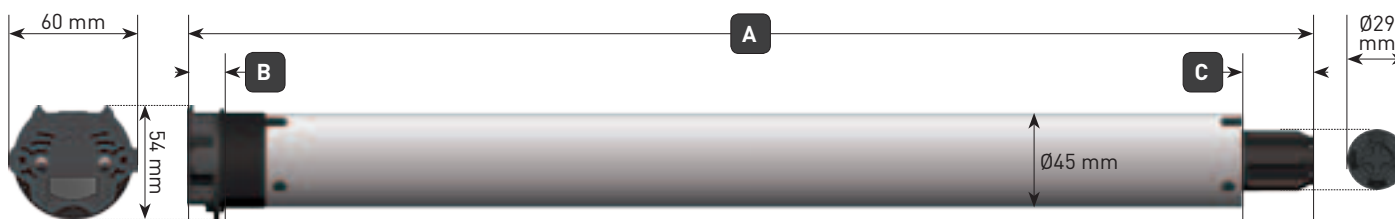
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
XQ5E617	6	17	137	0.60	80
XQ5E1017	10	17	156	0.70	80
XQ5E1317	13	17	184	0.80	80
XQ5E2017	20	17	184	0.80	80
XQ5E3017	30	17	253	1.20	80
XQ5E4017	40	17	322	1.50	80
XQ5E5014	50	14	322	1.50	80
XQ5P617	6	17	137	0.60	28
XQ5P1017	10	17	156	0.70	28
XQ5P1317	13	17	184	0.80	28
XQ5P1514	15	14	156	0.70	28
XQ5P2017	20	17	184	0.80	28
XQ5P2514	25	14	184	0.80	28
XQ5P3017	30	17	253	1.20	28
XQ5P3514	35	14	253	1.20	28
XQ5P4017	40	17	322	1.50	28
XQ5P5014	50	14	322	1.50	28

#### Dimensions

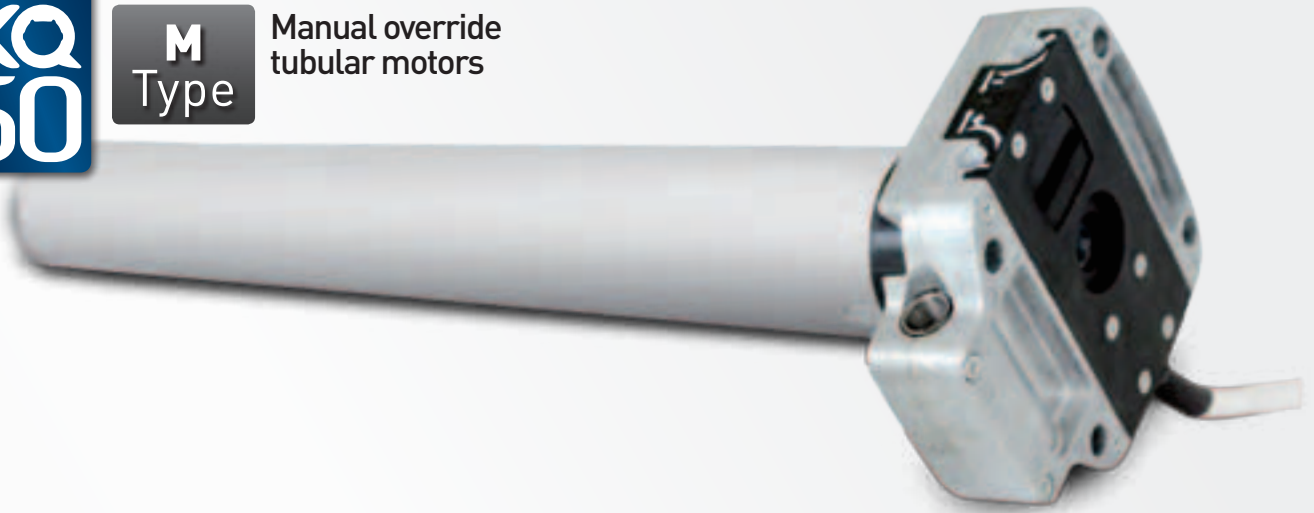
	Segment		
	A	B	C
	538	18	34
	543	18	34
	567	18	34
	567	18	34
	602	18	34
	607	18	34
	607	18	34
	500	18	34
	505	18	34
	529	18	34
	505	18	34
	529	18	34
	529	18	34
	529	18	34
	564	18	34
	564	18	34
	569	18	34
	569	18	34



# XQ50

**M**  
Type

Manual override  
tubular motors



**XQ5 MX**  868MHz

**TUBULAR MOTORS WITH  
MANUAL OVERRIDE AND  
INTEGRATED RECEIVER**

**XQ5 MR**  434MHz

**TUBULAR MOTORS WITH  
MANUAL OVERRIDE AND  
INTEGRATED RECEIVER**

**XQ5 M**

**TUBULAR MOTORS WITH  
MECHANICAL LIMIT SWITCH  
AND MANUAL OVERRIDE**

- ▶ Operability in any circumstances via the manual override
- ▶ Strong head construction
- ▶ Specular access to the setting screws
- ▶ Override gear ratio 1:23
- ▶ MX/MR versions compatible with all the ranges of Gaposá transmitters at 868 MHz or at 434 MHz
- ▶ MX/MR versions compatible with climatic sensors

### Main features

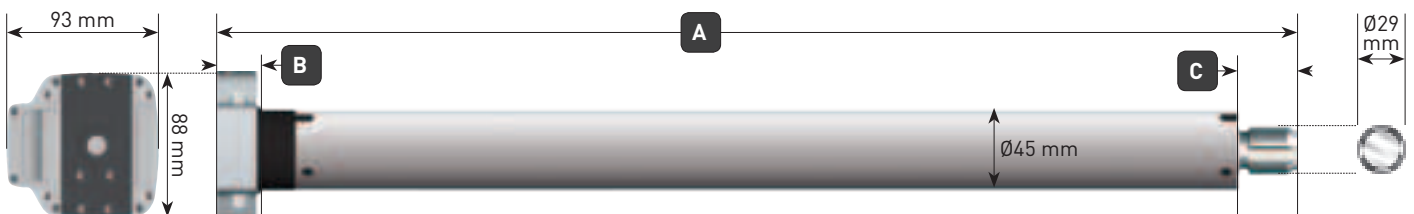
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5MX1017</b>	10	17	156	0.70	28
<b>XQ5MX2017</b>	20	17	184	0.80	28
<b>XQ5MX3017</b>	30	17	253	1.20	28
<b>XQ5MX4017</b>	40	17	322	1.50	28
<b>XQ5MX5014</b>	50	14	322	1.50	28
<b>XQ5MR1017</b>	10	17	156	0.70	28
<b>XQ5MR2017</b>	20	17	184	0.80	28
<b>XQ5MR3017</b>	30	17	253	1.20	28
<b>XQ5MR4017</b>	40	17	322	1.50	28
<b>XQ5MR5014</b>	50	14	322	1.50	28
<b>XQ5M1017</b>	10	17	156	0.70	28
<b>XQ5M1514</b>	15	14	156	0.70	28
<b>XQ5M2017</b>	20	17	184	0.80	28
<b>XQ5M2514</b>	25	14	184	0.80	28
<b>XQ5M3017</b>	30	17	253	1.20	28
<b>XQ5M3514</b>	35	14	253	1.20	28
<b>XQ5M4017</b>	40	17	322	1.50	28
<b>XQ5M5014</b>	50	14	322	1.50	28

### Dimensions

	Segment		
	A	B	C
	829	24	34
	829	24	34
	829	24	34
	829	24	34
	829	24	34
	829	24	34
	829	24	34
	829	24	34
	829	24	34
	550	24	34
	550	24	34
	575	24	34
	575	24	34
	611	24	34
	611	24	34
	615	24	34
	615	24	34

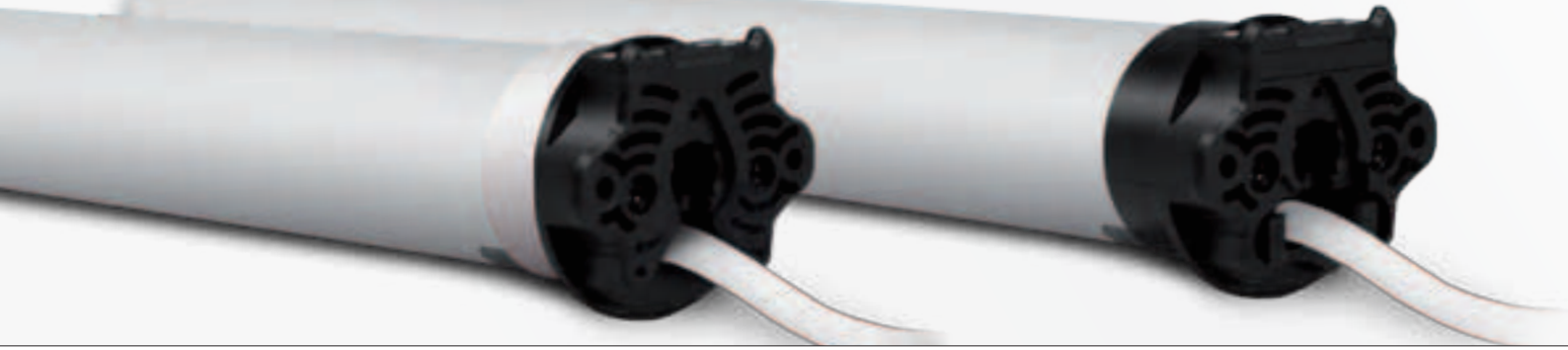


# XQ 50

## AUTO STOP

A real plug and  
play technology

NO LIMIT SETTING  
PROCEDURE IS REQUIRED



## XQ5T

**TUBULAR MOTORS WITH AUTOMATIC  
LIMIT SETTING**

## XQ5A

**TUBULAR MOTORS WITH AUTOMATIC LIMIT  
SETTING: PLUG-IN CABLE VERSION**

The **XQ AUTO stop** tubular motor for roller shutters does not require any limit setting during installation.

The only requirement is the use of safety stops and anti-intrusion springs on the shutter.

Developed to facilitate installation and to increase motor longevity.

The **XQ AUTO stop** motor works on electronic logic memorization of the physical shutter limits by simply running the shutter UP and DOWN twice.

The **XQ AUTO stop** tubular motor also features obstacle detection and frozen side track protection.

An enhanced version "rev-auto" will prevent unnecessary pressure of the slats by reversing motor travel for a split second once top or bottom limits have been reached.

### Main features

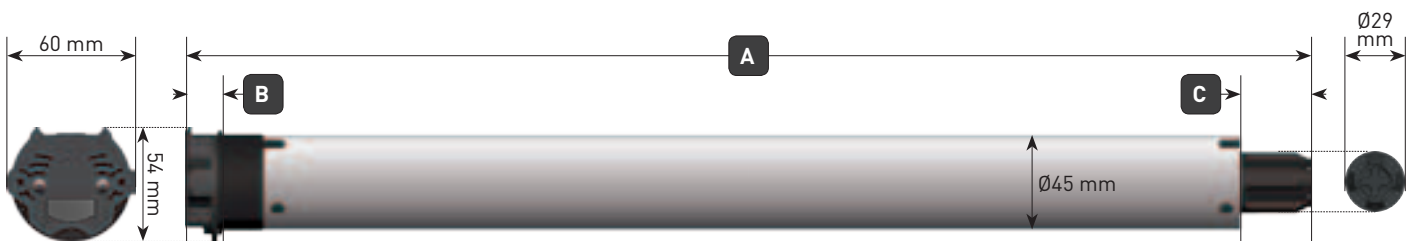
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5A617</b>	6	17	137	0.60	80
<b>XQ5A1017</b>	10	17	156	0.70	80
<b>XQ5A1317</b>	13	17	184	0.80	80
<b>XQ5A2017</b>	20	17	184	0.80	80
<b>XQ5T617</b>	6	17	137	0.60	80
<b>XQ5T1017</b>	10	17	156	0.70	80
<b>XQ5T1317</b>	13	17	184	0.80	80
<b>XQ5T2017</b>	20	17	184	0.80	80

### Dimensions

	Segment		
	A	B	C
<b>XQ5A617</b>	513	18	34
<b>XQ5A1017</b>	513	18	34
<b>XQ5A1317</b>	538	18	34
<b>XQ5A2017</b>	538	18	34
<b>XQ5T617</b>	505	18	34
<b>XQ5T1017</b>	505	18	34
<b>XQ5T1317</b>	529	18	34
<b>XQ5T2017</b>	529	18	34





## XQ5 sense

### TUBULAR MOTORS WITH AUTOMATIC LIMIT SETTING

**SENSE** tubular motor allows limits setting using a normal switch. It requires simple fixing springs instead of the security ones.

By simply pressing the UP button the motor automatically moves UP and DOWN to detect and store limit positions. **Easy!**

- ▶ Soft stop and slight release
- ▶ Obstacle detection
- ▶ Set and reset by normal switch
- ▶ Limit setting in any position by a setting tool
- ▶ Overload cut-off if torque exceeds when raising the shutter
- ▶ Several motors can be connected in parallel
- ▶ Plug-in cable

#### Main features

Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5SENSE617</b>	6	17	137	0.60	80
<b>XQ5SENSE1017</b>	10	17	156	0.70	80
<b>XQ5SENSE2017</b>	20	17	184	0.80	80

#### Dimensions

	Segment		
	A	B	C
<b>XQ5SENSE617</b>	513	18	34
<b>XQ5SENSE1017</b>	513	18	34
<b>XQ5SENSE2017</b>	538	18	34



# XQ50

## S Type

### Electronic tubular motors

IDEAL FOR AWNINGS



### XQ5SX 868MHz

**TUBULAR MOTORS WITH ENCODED ELECTRONIC LIMITS AND INTEGRATED RECEIVER**

### XQ5SR 434MHz

**TUBULAR MOTORS WITH ENCODED ELECTRONIC LIMITS AND INTEGRATED RECEIVER**

### XQ5S

**TUBULAR MOTORS WITH ENCODED ELECTRONIC LIMITS**

Cassette awnings require electronic encoded motors with very specific features:

- ▶ Soft stop
- ▶ Perfect closure
- ▶ Fabric protection
- ▶ Long duty rating

Gaposa developed a special software combined with a unique motor winding to ensure that all of these requirements are met in full. **XQ S type** is available in two versions: wired or with integrated radio control at 868 or at 434 MHz.

#### Main features

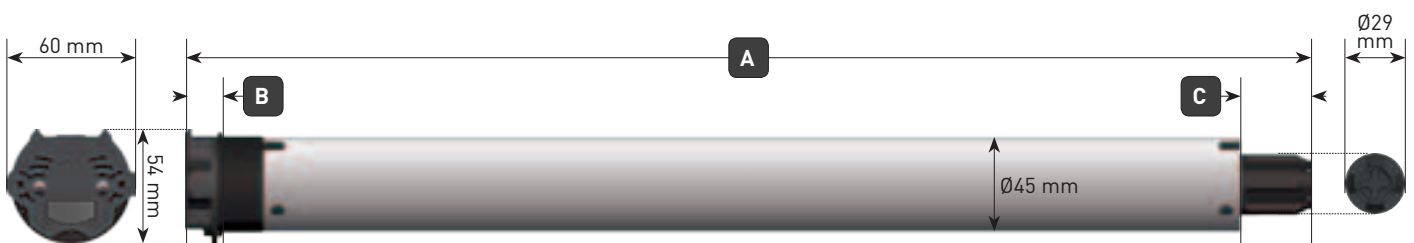
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires (SX/SR)	3x0.75 mm <sup>2</sup>
Wires (S)	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5SX3017</b>	30	17	253	1.20	80
<b>XQ5SX4017</b>	40	17	322	1.50	80
<b>XQ5SX5014</b>	50	14	322	1.50	80
<b>XQ5SR3017</b>	30	17	253	1.20	80
<b>XQ5SR4017</b>	40	17	322	1.50	80
<b>XQ5SR5014</b>	50	14	322	1.50	80
<b>XQ5S3017</b>	30	17	253	1.20	80
<b>XQ5S4017</b>	40	17	322	1.50	80
<b>XQ5S5014</b>	50	14	322	1.50	80

#### Dimensions

	Segment		
	A	B	C
	602	18	34
	607	18	34
	607	18	34
	602	18	34
	607	18	34
	607	18	34
	602	18	34
	607	18	34
	607	18	34







# XQ 60



## XQ6 EX

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**



## XQ6 ER

**ELECTRONIC ENCODED TUBULAR MOTORS  
WITH BUILT-IN RADIO RECEIVER**

- ▶ Easy and accurate limit setting via transmitter
- ▶ Overload torque cut-off
- ▶ Compatible with all the ranges of Gaposia transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ Plug-in cable

### Main features

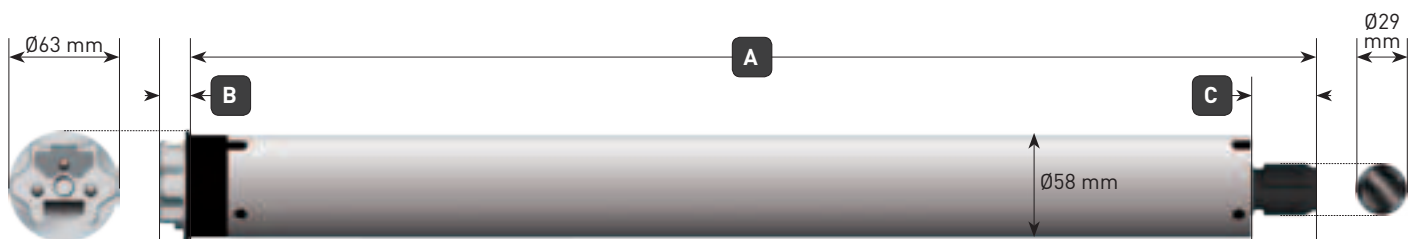
Power Supply (V-)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ6EX6012</b>	60	12	394	1.80	85
<b>XQ6EX6518</b>	65	18	540	2.50	85
<b>XQ6EX8012</b>	80	12	440	1.90	85
<b>XQ6EX10012</b>	100	12	425	1.85	85
<b>XQ6EX12012</b>	120	12	440	1.90	85
<b>XQ6ER6012</b>	60	12	394	1.80	85
<b>XQ6ER6518</b>	65	18	540	2.50	85
<b>XQ6ER8012</b>	80	12	440	1.90	85
<b>XQ6ER10012</b>	100	12	425	1.85	85
<b>XQ6ER12012</b>	120	12	440	1.90	85

### Dimensions

	Segment		
	A	B	C
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	745	20	31



# XQ 60



868MHz

## XQ6PX

**MECHANICAL LIMIT SWITCH TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

434MHz

## XQ6PR

**MECHANICAL LIMIT SWITCH TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors
- ▶ Plug-in cable

### Main features

Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ6PX6012</b>	60	12	394	1.80	26
<b>XQ6PX6518</b>	65	18	540	2.50	26
<b>XQ6PX8012</b>	80	12	440	1.90	26
<b>XQ6PX10012</b>	100	12	425	1.85	26
<b>XQ6PX12012</b>	120	12	440	1.90	26
<b>XQ6PR6012</b>	60	12	394	1.80	26
<b>XQ6PR6518</b>	65	18	540	2.50	26
<b>XQ6PR8012</b>	80	12	440	1.90	26
<b>XQ6PR10012</b>	100	12	425	1.85	26
<b>XQ6PR12012</b>	120	12	440	1.90	26

### Dimensions

	Segment		
	A	B	C
	835	20	31
	835	20	31
	835	20	31
	835	20	31
	835	20	31
	835	20	31
	835	20	31
	835	20	31
	835	20	31



# XQ60



## XQ6E

### ELECTRONIC ENCODED TUBULAR MOTORS

- ▶ Easy and accurate limit adjustment via the setting tool
- ▶ Direct limit setting through the button on the head
- ▶ Overload torque cut-off
- ▶ Several motors can be connected in parallel
- ▶ Plug-in cable

## XQ6P

### MECHANICAL LIMIT SWITCH TUBULAR MOTORS

- ▶ Easy and intuitive limit setting using an allen key
- ▶ Compatible with the range of control units for residential applications
- ▶ Plug-in cable

#### Main features

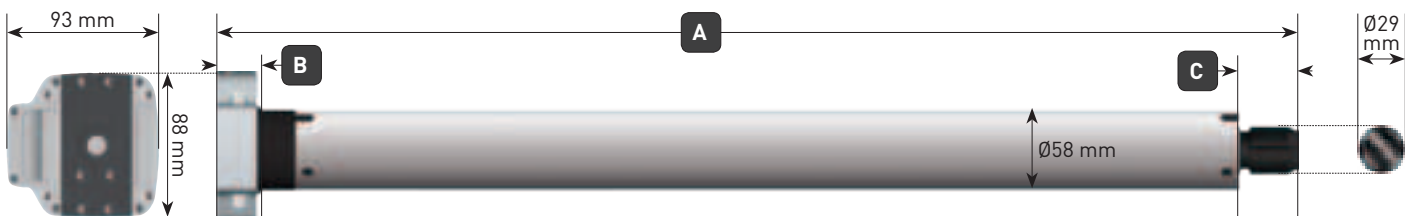
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ6E6012</b>	60	12	394	1.80	85
<b>XQ6E6518</b>	65	18	540	2.50	85
<b>XQ6E8012</b>	80	12	440	1.90	85
<b>XQ6E10012</b>	100	12	425	1.85	85
<b>XQ6E12012</b>	120	12	440	1.90	85
<b>XQ6P6012</b>	60	12	394	1.80	26
<b>XQ6P6518</b>	65	18	540	2.50	26
<b>XQ6P8012</b>	80	12	440	1.90	26
<b>XQ6P10012</b>	100	12	425	1.85	26
<b>XQ6P12012</b>	120	12	440	1.90	26

#### Dimensions

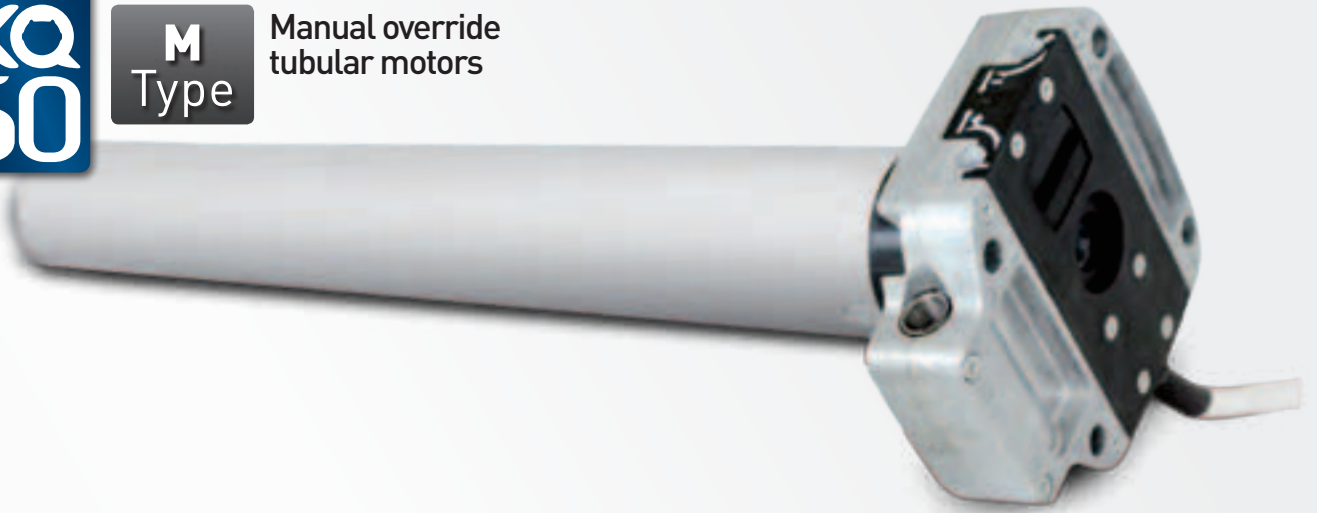
	Segment		
	A	B	C
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	745	20	31
	695	20	31
	695	20	31
	695	20	31
	695	20	31
	695	20	31



# XQ 60

## M Type

### Manual override tubular motors



## XQ6 MX



## XQ6 MR



## XQ6 M

**TUBULAR MOTORS WITH MANUAL  
OVERRIDE AND INTEGRATED  
RECEIVER**

**TUBULAR MOTORS WITH MANUAL  
OVERRIDE AND INTEGRATED  
RECEIVER**

**TUBULAR MOTORS WITH  
MANUAL OVERRIDE**

- ▶ Operability in any circumstances via the manual override
- ▶ Strong head construction
- ▶ Specular access to the setting screws
- ▶ Override gear ratio 1:55
- ▶ MX/MR versions compatible with all the ranges of Gaposá transmitters at 868 MHz or at 434 MHz
- ▶ MX/MR versions compatible with climatic sensors

### Main features

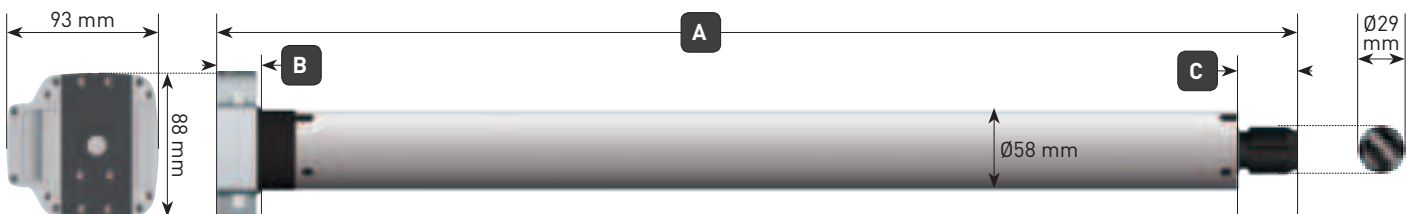
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	4x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
XQ6MX6012	60	12	394	1.80	26
XQ6MX6518	65	18	540	2.50	26
XQ6MX8012	80	12	440	1.90	26
XQ6MX10012	100	12	425	1.85	26
XQ6MX12012	120	12	440	1.90	26
XQ6MR6012	60	12	394	1.80	26
XQ6MR6518	65	18	540	2.50	26
XQ6MR8012	80	12	440	1.90	26
XQ6MR10012	100	12	425	1.85	26
XQ6MR12012	120	12	440	1.90	26
XQ6M6012	60	12	394	1.80	26
XQ6M6518	65	18	540	2.50	26
XQ6M8012	80	12	440	1.90	26
XQ6M10012	100	12	425	1.85	26
XQ6M12012	120	12	440	1.90	26

### Dimensions

	Segment		
	A	B	C
XQ6MX6012	931	25	31
XQ6MX6518	931	25	31
XQ6MX8012	931	25	31
XQ6MX10012	931	25	31
XQ6MX12012	931	25	31
XQ6MR6012	931	25	31
XQ6MR6518	931	25	31
XQ6MR8012	931	25	31
XQ6MR10012	931	25	31
XQ6MR12012	931	25	31
XQ6M6012	771	25	31
XQ6M6518	771	25	31
XQ6M8012	771	25	31
XQ6M10012	771	25	31
XQ6M12012	771	25	31



### for PERGOLAS

**XQ5 EX404** *ELECTRONIC ENCODED AND BUILT-IN RADIO RECEIVER*



868MHz

**XQ5 ER404** *ELECTRONIC ENCODED AND BUILT-IN RADIO RECEIVER*



434MHz

**XQ5 E404** *ELECTRONIC ENCODED*

- ▶ Easy and accurate limit adjustment through the setting tool or transmitter (Ver. E or R)
- ▶ Direct setting of the limit through the button on the head
- ▶ Dedicated firmware for tensioning the pergolas after reaching the down limit position
- ▶ Torque/speed ratio specific for pergolas
- ▶ Low vibration and low noise motor
- ▶ Plug-in cable

### for VERANDAS

**XQ5 VX3017** *ELECTRONIC ENCODED AND BUILT-IN RADIO RECEIVER*



868MHz

**XQ5 VR3017** *ELECTRONIC ENCODED AND BUILT-IN RADIO RECEIVER*



434MHz

**XQ5 V3017** *ELECTRONIC ENCODED*

- ▶ Easy and accurate limit adjustment through the setting tool or transmitter (Ver. E or R)
- ▶ Direct setting of the limit through the button on the head
- ▶ Dedicated firmware for tensioning the veranda after reaching the down limit position
- ▶ Low vibration and low noise motor
- ▶ Plug-in cable

#### Main features

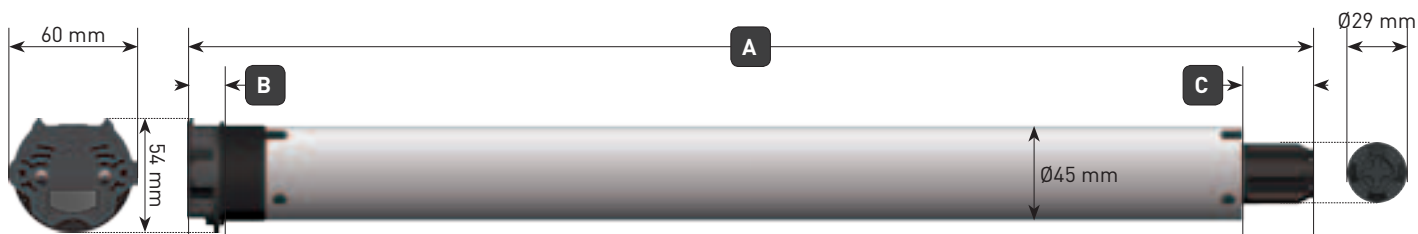
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5E404</b>	40	4	156	0.7	80
<b>XQ5EX404</b>	40	4	156	0.7	80
<b>XQ5ER404</b>	40	4	156	0.7	80
<b>XQ5V3017</b>	30	17	253	1.20	80
<b>XQ5VX3017</b>	30	17	253	1.20	80
<b>XQ5VR3017</b>	30	17	253	1.20	80

#### Dimensions

	Segment		
	A	B	C
	529	18	34
	529	18	34
	529	18	34
	602	18	34
	602	18	34
	602	18	34





# XQ 50

## SPECIAL MOTORS

FOR AWNINGS WITH LED LIGHTING, SPEAKERS AND ANY OTHER TYPE OF LOW VOLTAGE INTEGRATED DEVICES

868MHz

### XQ5 DX

**ELECTRONIC ENCODED TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ For outdoor use
- ▶ Auxiliary control cable for low voltage devices
- ▶ Easy and accurate limit setting via transmitter

434MHz

### XQ5 DR

**ELECTRONIC ENCODED TUBULAR MOTORS WITH BUILT-IN RADIO RECEIVER**

- ▶ Compatible with all the ranges of Gaposa transmitters at 868 MHz or at 434 MHz
- ▶ Compatible with climatic sensors



#### Main features

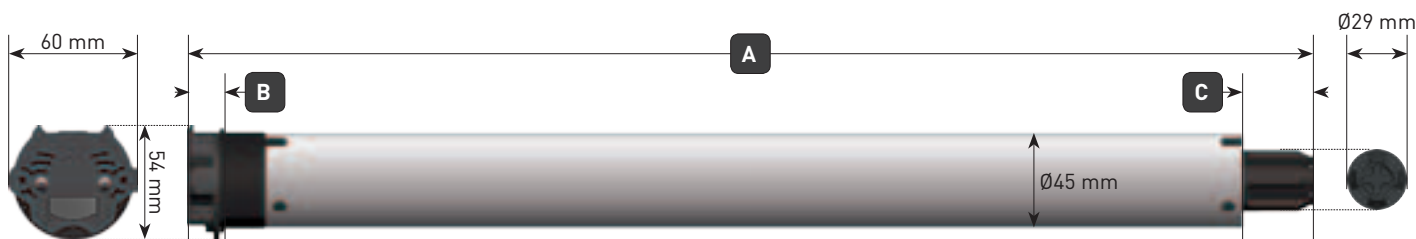
Power Supply (V~)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Wires	3x0.75 mm <sup>2</sup>
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

#### Technical details

	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ5DX3017</b>	30	17	253	1.20	80
<b>XQ5DX4017</b>	40	17	322	1.50	80
<b>XQ5DX5014</b>	50	14	322	1.50	80
<b>XQ5DR3017</b>	30	17	253	1.20	80
<b>XQ5DR4017</b>	40	17	322	1.50	80
<b>XQ5DR5014</b>	50	14	322	1.50	80

#### Dimensions

	Segment		
	A	B	C
	602	18	34
	607	18	34
	607	18	34
	602	18	34
	607	18	34
	607	18	34





**XQ  
40**

**XQ  
50**

**XQ  
60**

**SPECIAL MOTORS**

*The advanced expertise in mechanical engineering allows Gaposa R&D center to develop special tubular motors versions for particular applications*

## **XQ4P164**

▶ 1 Nm - 64 rpm

Quiet tubular motor for tall shades

## **XQ4SF182**

▶ 18 Nm - 2 rpm

Quiet tubular motor for exterior alu louvers

## **XQ4ER248**

▶ 2 Nm - 48 rpm

Quiet tubular motors for lifting displays

## **XQ4P413**

▶ 4 Nm - 13 rpm

Quiet tubular motor for venetian blinds

## **XQ5P2380**

▶ 2 Nm - 380 rpm

Tubular motor for super fast venetian blinds

## **XQ5P2020**

▶ 20 Nm - 20 rpm

Tubular motor for heavy shades

## **XQ5P1017EX**

▶ 10 Nm - 17 rpm

Tubular motor for rolling shutters with external capacitor for minimum overall dimensions (motor length 42 cm)

## **XQ6P2072**

▶ 20 Nm - 72 rpm

Tubular motor for tall and heavy shades





---

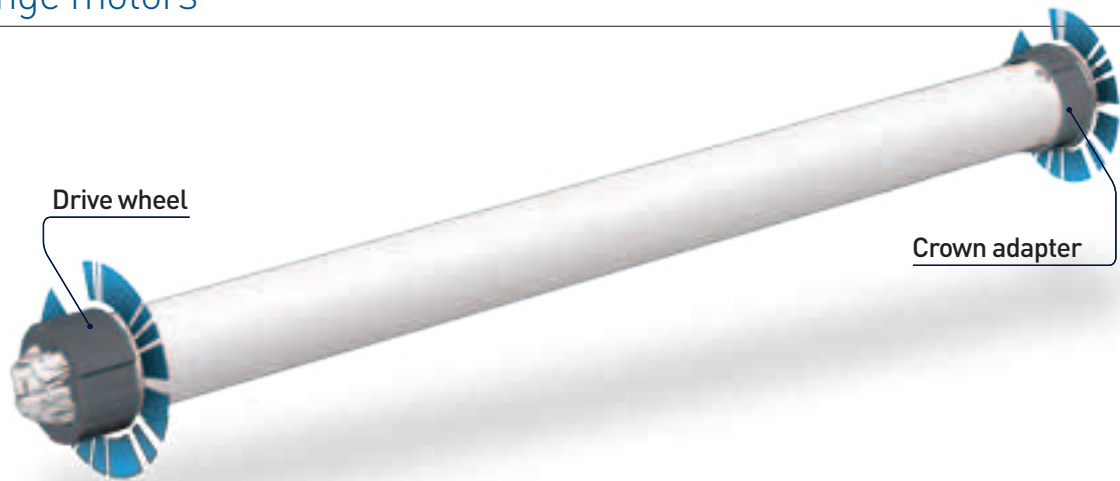
A series of horizontal dotted lines spanning the width of the page, providing a guide for handwriting practice.

The background features dark blue silhouettes of several people in a collaborative setting. One person on the left is holding a long pole or stick. In the center, two people are facing each other, appearing to be in conversation or working together. The overall scene suggests a team effort or a workshop environment.

Adapters  
& brackets

# ADAPTERS

## ■ 40 range motors



Drive wheel	Crown adapter		Drive wheel	Crown adapter	
		Code: AXRS440 Tube: Round 44x2 mm Grooves			Code: AXRS4015 Tube: Round 40x1.5 mm Grooves
		Code: AXRS40 Tube: Round 40x1 mm			Code: AXRS40S Tube: Oval
		Code: AXRS448 Tube: Round 47x1 mm Grooves			Code: AXRS44 Tube: Round 44x1 mm
		Code: AXOS4 Tube: Octagonal 40 mm			Code: AXR05 Tube: Octagonal 50 mm + AXRRF4
		Code: AXRS47 Tube: Round 47x2 mm			Code: AXSFB Tube: Benthin 52 mm
		Code: AXRRF4 ADAPTOR FROM XQ40 TO XQ50 MOTOR CROWN			

# ADAPTERS




























## ■ 50 range motors



Drive wheel	Crown adapter	Drive wheel	Crown adapter
	<p>Code: AXR50</p> <p>Tube: Round 50X1.5 mm</p>		<p>Code: AX067</p> <p>Tube: Octagonal 70 mm + AXRRF</p>
	<p>Code: AXR60</p> <p>Tube: Round 60X1.5 mm</p>		<p>Code: AXZF54</p> <p>Tube: Zurfluh-Feller 54 mm</p>
	<p>Code: AXR70</p> <p>Tube: Round 70X1.5 mm + AXRRF</p>		<p>Code: AXGS63</p> <p>Tube: Welsner 63 mm</p>
	<p>Code: AX05</p> <p>Tube: Octagonal 50 mm</p>		<p>Code: AX06</p> <p>Tube: Octagonal 60 mm</p>
	<p>Code: AXZF64</p> <p>Tube: Zurfluh-Feller 64 mm</p>		<p>Code: AXOS6</p> <p>Tube: Octagonal starred 60 mm Grooves</p>

# ADAPTERS

## ■ 50 range motors

















Drive wheel	Crown adapter		Drive wheel	Crown adapter	
		Code: AXG7 Tube: 70 mm Grooves			Code: AXG7BAT2 Tube: Round 62 mm
		Code: AXD62 Tube: Deprat 62 mm			Code: AXGS78M Tube: 78 mm Grooves
		Code: AXD53 Tube: Deprat 53 mm Grooves			Code: AXGS85 Tube: 85 mm
		Code: AX06.SG Tube: Round 60 mm			Code: AXR50.MT Tube: Mottura
		Code: AXR55.PR Tube: Round 60 mm			Code: AXR50.WB Tube: Round 60 mm
		Code: AXG7BAT1 Tube: Round 60 mm			Code: AX06.FB Tube: Benthin
	Code: AXAMA Tube: AMA		Code: AXPERCO Tube: PERCO		Code: AXRRF ADAPTOR FROM XQ50 TO XQ60 MOTOR CROWN



# ADAPTERS

## ■ 60 range motors

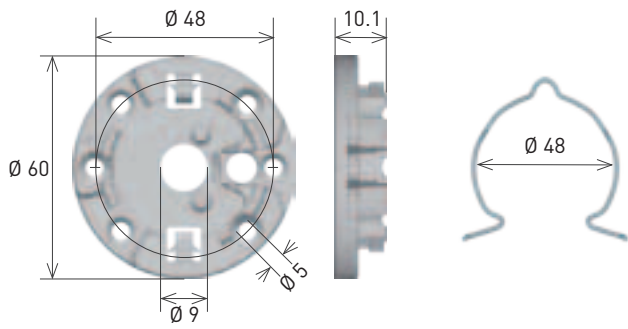


Drive wheel	Crown adapter	Drive wheel	Crown adapter
 <p>Code: AXR570 Tube: Round / 70X1.5 mm</p>		 <p>Code: AX57 Tube: Octagonal / 70 mm</p>	
 <p>Code: AXGS578 Tube: 78 mm Grooves / Zurfluh-Feller 80 mm</p>		 <p>Code: AXD589 Tube: DEPRAT / 89 mm</p>	
 <p>Code: AXD589BAT3 Tube: 78 mm</p>		 <p>Code: AXGS585.EC Tube: Grooves / 85 mm</p>	
 <p>Code: AXGS585 / AXR585 Tube: Grooves / 85 mm</p>		 <p>Code: AXR101 Tube: Round - 101/101.6X3.6 mm</p>	 <p>Code: AXR1012 Tube: Round - 101.6X2 mm</p>

# BRACKETS

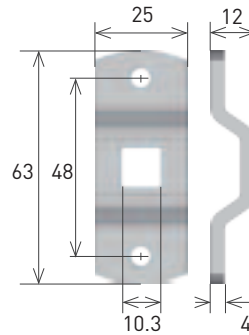
Dimensions in mm.

## ■ 40 range motors (from 3 Nm to 12 Nm)

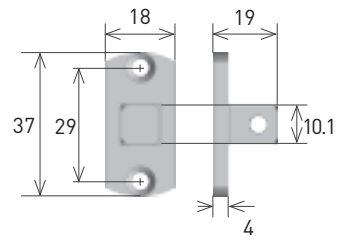


AXPR4

+ML11A056

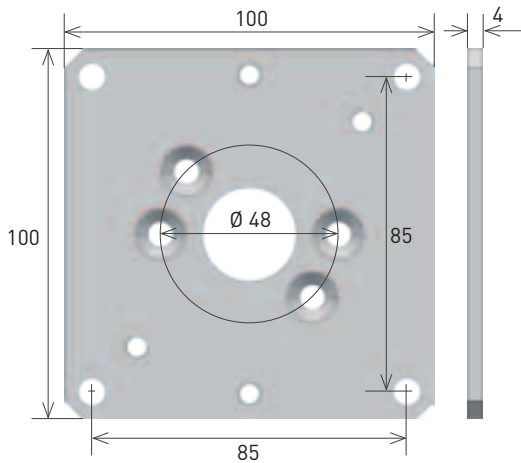


AXPS

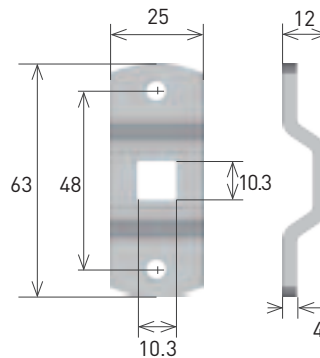


AXQ4

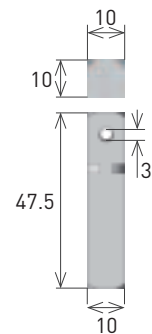
## ■ 50 range motors (from 4 Nm to 50 Nm)



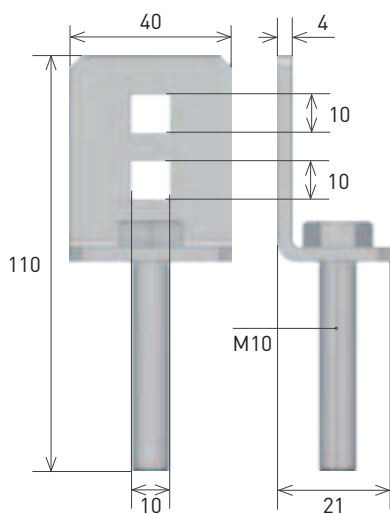
AXNPSM



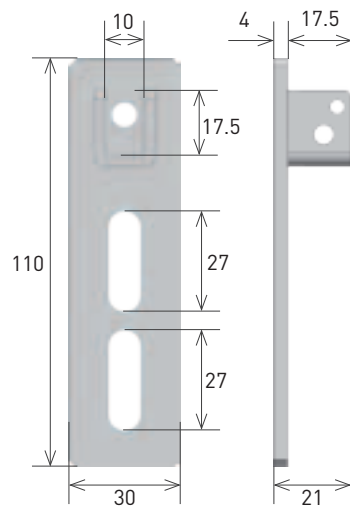
AXPS



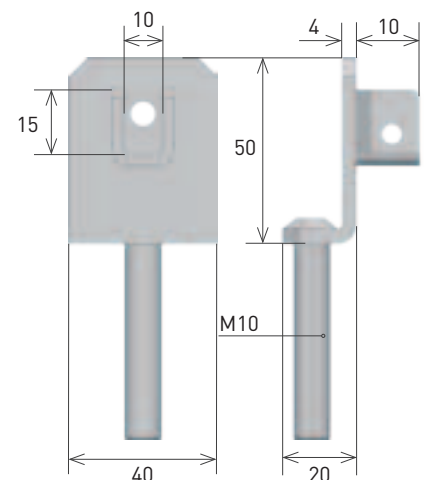
AXQ



AXSR1



AXSV1



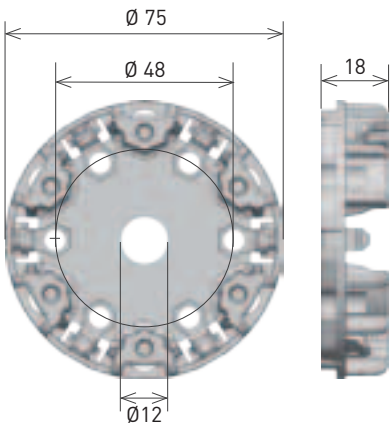
AXSR3



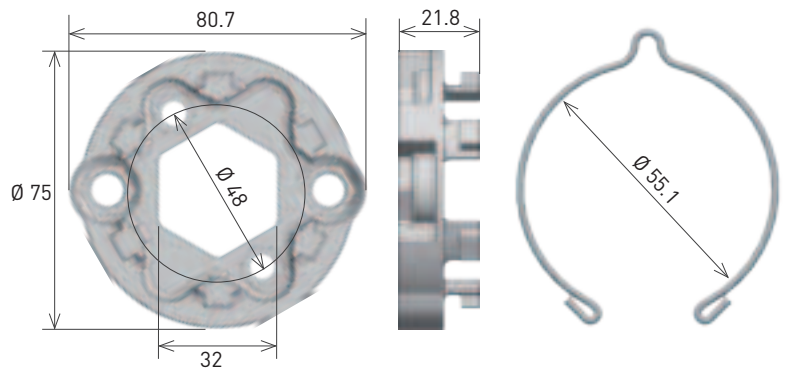
# BRACKETS

Dimensions in mm.

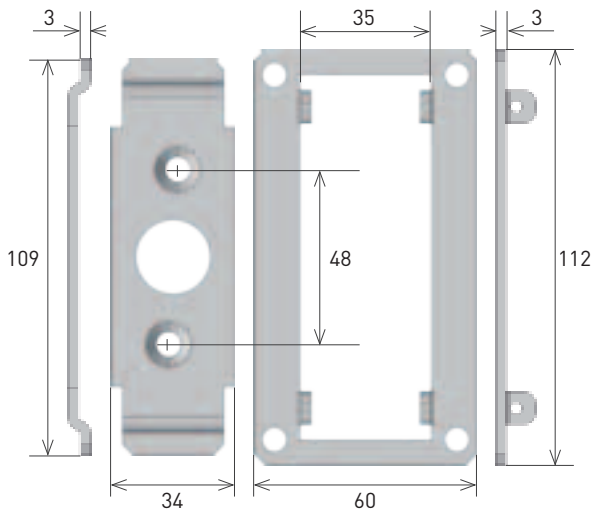
◀◀◀ ■ 50 range motors (from 4 Nm to 50 Nm)



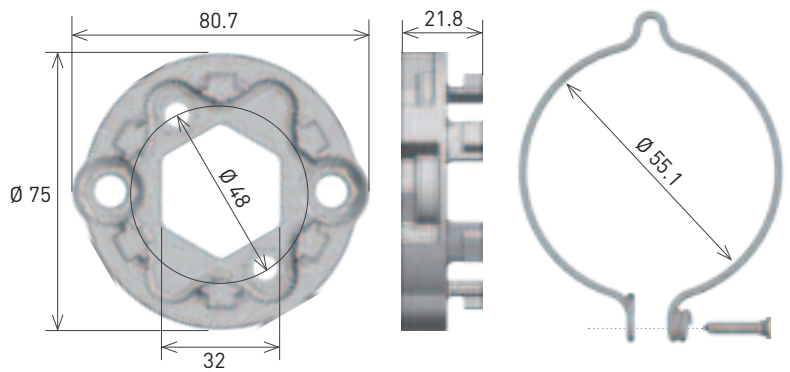
AXPR5 (max 25 Nm)



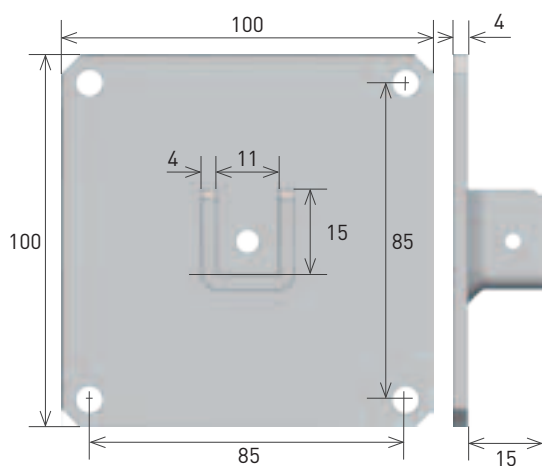
AXPR5Z



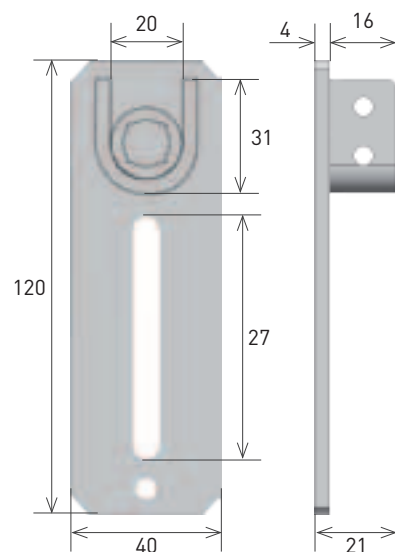
AXPC



AXPR5ZS



AXPSS



AXQSP

# BRACKETS

Dimensions in mm.

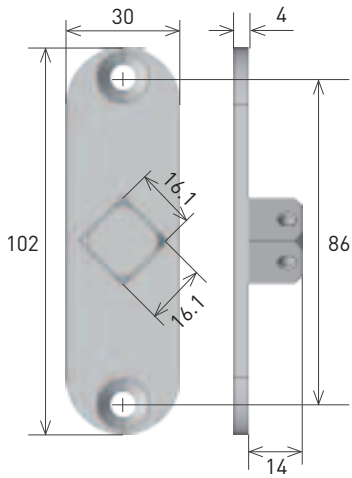
## ■ 60 range motors (from 60 Nm to 120 Nm)

<p>AXPC</p>	<p>AX5SR1</p>	<p>AX5SV1</p>
<p>AXPR5Z (max 80 Nm)</p>		<p>AX5EQ</p>
<p>AXPR5ZS (max 80Nm)</p>		

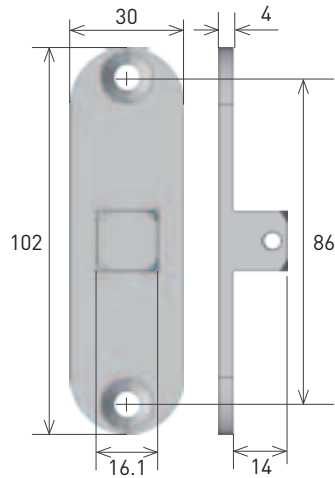
# BRACKETS FOR MANUAL OVERRIDE

Dimensions in mm.

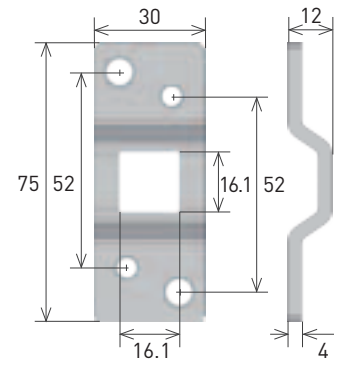
## ■ 50/60 range motors



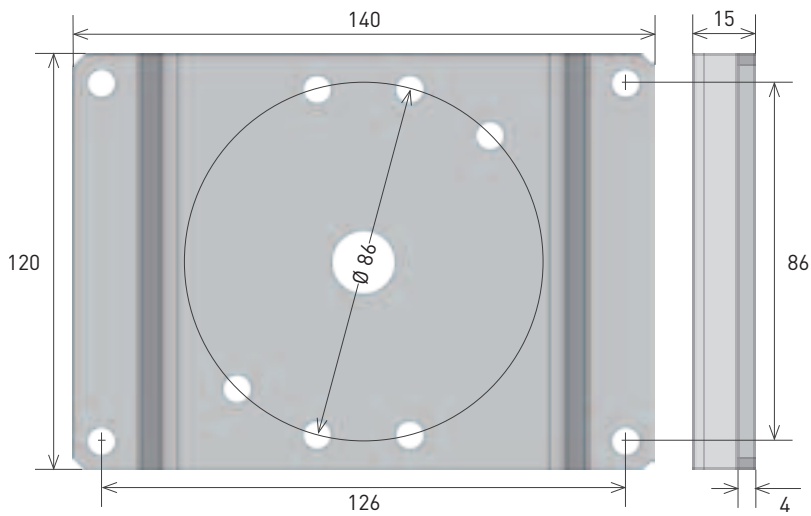
AXNPMQ45



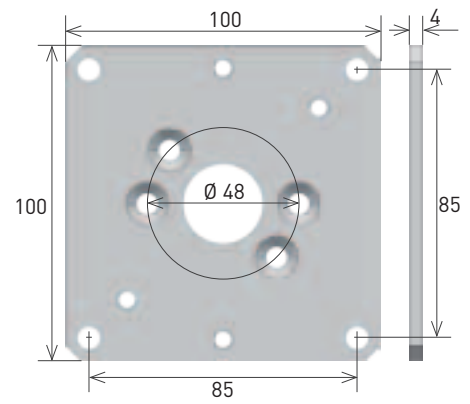
AXNPMQ90



AX5PS



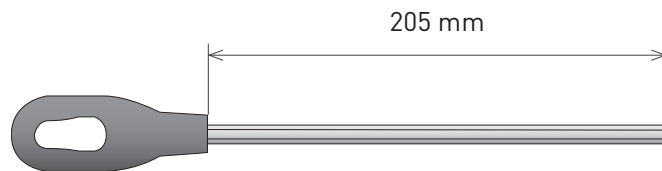
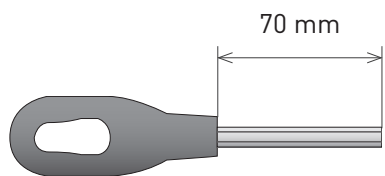
AXNPMS



AXNPSM

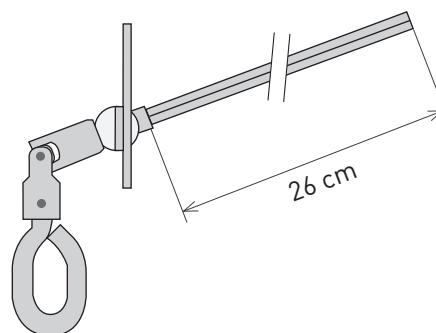
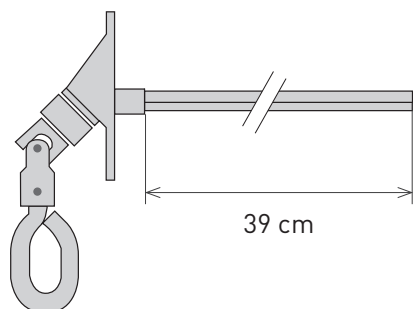
# ACCESSORIES FOR MANUAL OVERRIDE

■ 50/60 range motors



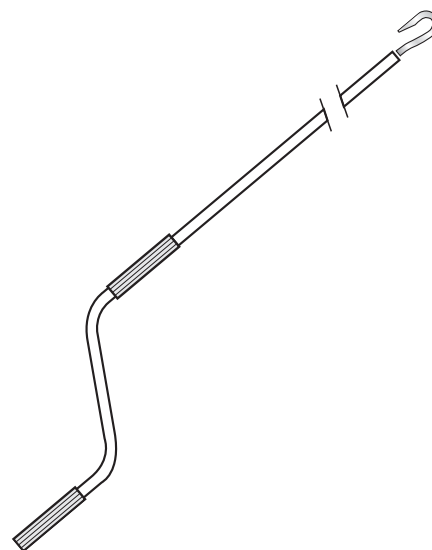
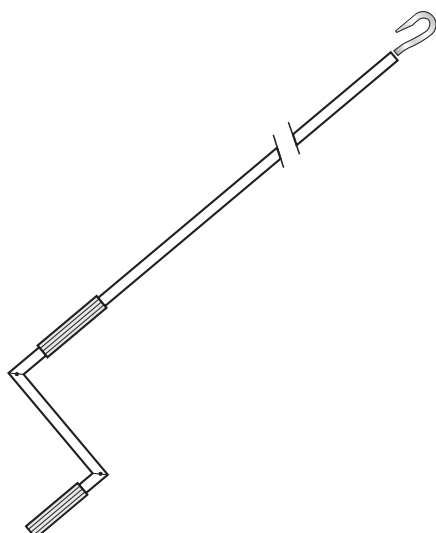
AXNOF

AXNOFL



AXNOS90

AXNOS45



AXASG150 (l. 150 cm)

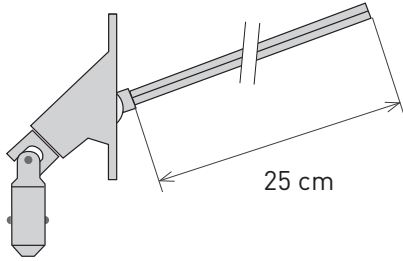
AXAFG150 (l. 150 cm)  
AXAFG200 (l. 200 cm)  
AXAFG250 (l. 250 cm)



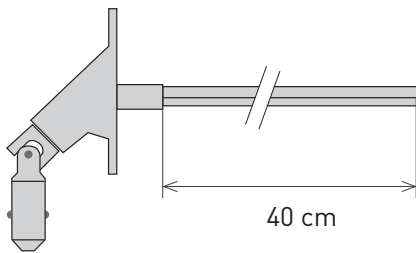


# ACCESSORIES FOR MANUAL OVERRIDE

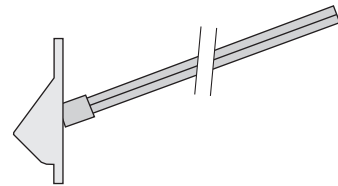
◀◀◀ ■ 50/60 range motors



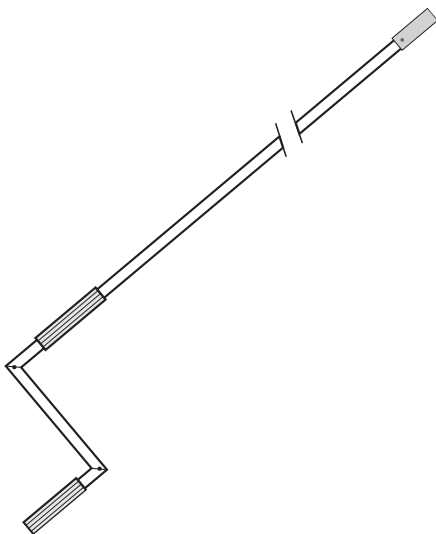
AXNOSB45



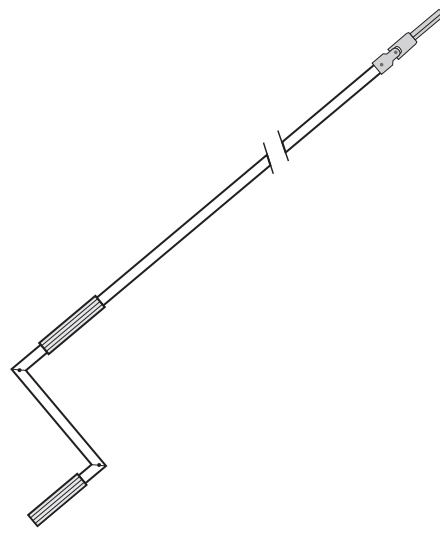
AXNOSB90



AXASD (l. 19 cm)  
AXASD50 (l. 50 cm)



AXASB150 (l. 150 cm)

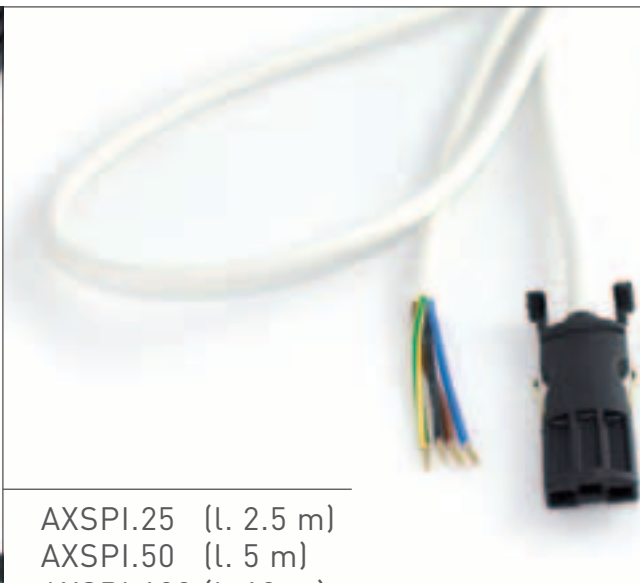


AXAMS (l. 150 cm)

# ADDITIONAL ACCESSORIES



AXSPI.25GN (l. 2.5 m)  
AXSPI.50GN (l. 5 m)



AXSPI.25 (l. 2.5 m)  
AXSPI.50 (l. 5 m)  
AXSPI.100 (l. 10 m)



AXSPI.H03D



ACPRE Limit setting tool for electronic motors  
ACPRF Limit setting tool for mechanical motors



6SOFTCAP01






AXRF

# TUBULAR MOTORS SELECTION TABLES

## Roller blinds, venetians, shades & home-theatre screens.


The table below shows the max. weight (Kg) each blind or screen can lift according to the rolling tube diameter.


Tube diameter (mm)	▶	40	50
	3 Nm	11	9
	6 Nm	21	17


Tube diameter (mm)	▶	40	50	60	70
	1 Nm	4	3		
	2 Nm	7	6		
	3 Nm	11	9		
	4 Nm	14	11		
	4 Nm		11	9	8
	6 Nm		16	13	11
	15 Nm		40	33	28

## Shutters and garage doors.

The table below shows the shutter max. weight (Kg) each motor can lift, according to the rolling tube diameter and the height of the shutter. All weights consider friction:

Tube diameter (mm)	▶	40			45			50		
Max shutter height (m)	▶	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5
	4 Nm	9	8	8	8	7	7	7	7	6
	5 Nm	11	10	10	10	9	9	9	8	8
	9 Nm	20	19	17	18	17	16	16	15	14
	12 Nm	26	25	23	23	22	21	21	20	19

Tube diameter (mm)	▶	50			60			70			90		
Max shutter height (m)	▶	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5
	6 Nm	14	12	9	11	10	8	10	8	7	8	6	5
	10 Nm	23	19	16	19	16	13	16	14	11	13	11	9
	13 Nm	30	25	20	25	21	17	21	18	14	17	14	11
	20 Nm	46	38	31	38	32	26	33	27	22	25	21	17
	30 Nm	69	58	47	57	48	39	49	41	33	38	32	26
	40 Nm	91	77	62	76	64	52	65	55	44	51	43	34
	50 Nm	114	96	78	95	80	65	82	69	55	63	53	43

Tube diameter (mm)	▶	70			90			102			133		
Max shutter height (m)	▶	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5
	60 Nm	94	79	64	81	69	58	71	61	51	55	47	39
	65 Nm	101	85	69	88	75	63	77	66	55	59	51	42
	80 Nm	125	105	85	108	93	77	95	82	68	73	63	52
	100 Nm	156	131	106	135	116	96	119	102	85	91	78	65
	120 Nm	187	157	128	162	139	116	143	122	102	110	94	78

### Folding arm awnings.

The table below shows the most suitable model according to the following awnings characteristics:

1. Arm thrust;
2. Number of arms;
3. Awning projection;
4. Roller tube diameter.

XQ  
50

XQ  
60

Awning projection	Tube diameter	Nr. of arms	20 Nm	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm	60 Nm	65 Nm	80 Nm	100 Nm	120 Nm
up to 1.5 m	50 mm	2	■										
		4		■									
		6				■							
		8					■						
	63/70 mm	2		■									
		4		■									
		6				■							
		8					■						
	78 mm	2			■								
		4					■						
		6						■					
	85 mm	2							■	■			
4								■	■				
6										■			
up to 2 m	50 mm	2	■										
		4		■									
		6				■							
		8					■						
	63/70 mm	2		■	■								
		4				■							
		6						■					
	78 mm	4					■						
		6										■	
	85 mm	2							■	■			
		4							■	■			
		6										■	
up to 3.5 m	50 mm	2				■							
		4					■						
	63/70 mm	2					■						
		4						■					
	78 mm	2							■	■			
		4									■		
	85 mm	2										■	
		4										■	
6	2											■	
	4											■	
up to 5 m	78 mm	2									■		
		4										■	
	85 mm	2										■	
		4											■



# Controls and devices

64 *roll.app*

66 Emitto *Slim* transmitters

68 Emitto *Slim* dual control versions

70 QCTAB transmitters

72 Emitto transmitters

73 QCT3S/QCT34S - QCDEK/QCDEK4

74 Radio receivers

76 Cabled control units

77 Group control units

78 Climatic sensors

81 Switches

82 Transmitters - technical details





**roll.app** is a smart home system based on a simple hardware to be plugged into a socket and an App available for iOS and Android protocols. **roll.app** allows you to control shutters, shades/awnings, home appliances and climatic sensors through smartphones and tablets.

**roll.app** puts all of your home technology together in the same platform: a number of other devices can be added by dedicated USB keys.

The system is ready-to-use just after a few settings.

### The kit includes:

- Server
- Transmitter stick/USB
- Adapter plug
- Power cable
- Power cable adapter
- Network cable



## Top features list:

- Simple installation
- Access your smart home system worldwide
- It works also without internet connection
- Ideal for retrofitting
- Access to roll.app by different smartphones or tablets at the same time



## roll.app screenshots & graphic

Nice visuals and simple graphic.  
Configurable scenes and settings with a wide selection of intuitive icons.  
Full customization of the visuals matching the house layout.



# Transmitters

Residential and corporate environment

## EMITTO SLIM LINE

Emitto *slim line* is a new range of transmitters working at 868 MHz. With a slim shape and a stylish design, where fingers feel a comfortable touch, they are available in different combinations of finishes.



**QCTX1**  
1 channel  
transmitter



**QCTX2**  
2 channels  
transmitter



**QCTX5**  
5 channels  
transmitter



**QCTR1**  
1 channel  
transmitter



**QCTR2**  
2 channels  
transmitter

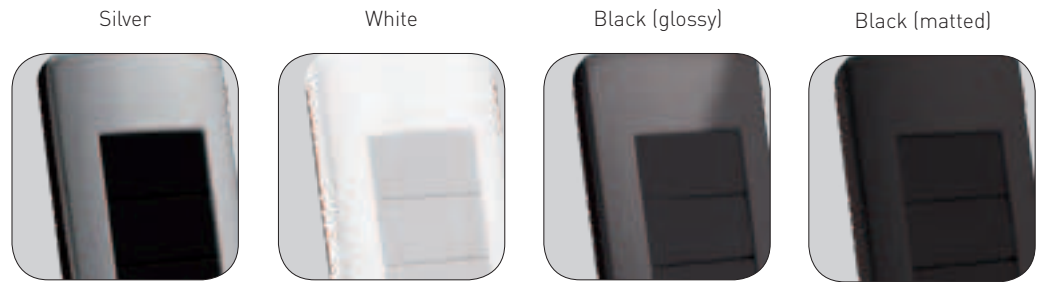


**QCTR5**  
5 channels  
transmitter

## Features

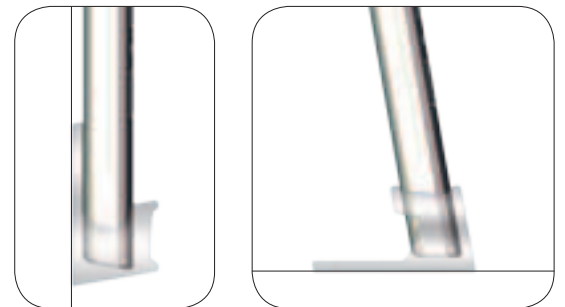
### Available colors

Available in different combinations of finishes: silver, white, black (glossy/matted).



### Table/wall support

The *re-verso* is a "piece of art": a transparent bracket allowing the transmitter to stand on a table or to be fixed on the wall.



### Technical details



	QCTX1	QCTX2	QCTX5	QCTR1	QCTR2	QCTR5
Channels	1	2	5	1	2	5
Frequency	868.30 MHz			434.15 MHz		
Power supply	3V mod. CR2430			3V mod. CR2430		
Battery life	2 year			2 year		
Radiated power	0,150 mW			0,150 mW		
Protection rate	IP40			IP40		
Coverage (int/ext)	20 m / 200 m			20 m / 200 m		
Encoding	RC Gaposa			RC Gaposa		
Working temperature	-5°C / +40°C			-5°C / +40°C		
Dimensions	40 x 120 x 14 mm			40 x 120 x 14 mm		
Weight	57 g			57 g		

# Dual control versions

Residential and corporate environment

Emitto *slim line* range offers some versions with specific features.



OFF



OFF



## QCTXS



**QCTXS** is a transmitter (UP-STOP-DOWN buttons) which allows activation/deactivation of the radio sun sensors through dedicated buttons.

## QCTXT



**QCTXT**, ideal for venetian blinds, is a transmitter (UP-STOP-DOWN buttons) which features two dedicated buttons for the "tilting function": the wireless micrometric orientation of the slats for the best control of the sun light into the room.

## QCTXL

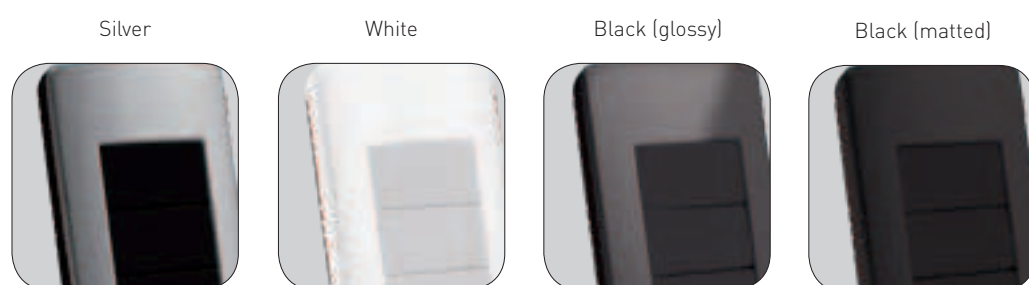


**QCTXL** allows a dual control of the light into a room: it is a transmitter (UP-STOP-DOWN buttons) for the radio operated shutter/blind/awning and by additional buttons it switches the light ON/OFF.

## Features

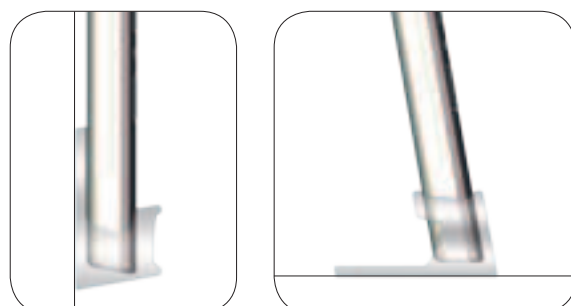
### Available colors

Available in different combinations of finishes: silver, white, black (glossy/matted).



### Table/wall support

The *re-verso* is a "piece of art": a transparent bracket allowing the transmitter to stand on a table or to be fixed on the wall.



### Technical details

	QCTXL	QCTXT	QCTXS
Channels	1		
Frequency	868.30 MHz		
Power supply	3V mod. CR2430		
Battery life	2 year		
Radiated power	0,150 mW		
Protection rate	IP40		
Coverage (int/ext)	20 m / 200 m		
Encoding	RC Gaposa		
Working temperature	-5°C / +40°C		
Dimensions	40 x 120 x 14 mm		
Weight	57 g		



# Transmitters



QCTAB is a portable surface-mounted transmitter with interchangeable frame. It is available in 2 versions: single channel or four channels. Frames are available in different colors.

## QCXTAB

1 channel transmitter



## QCXTAB4

4 channels transmitter



## QCTAB

1 channel transmitter



## QCTAB4

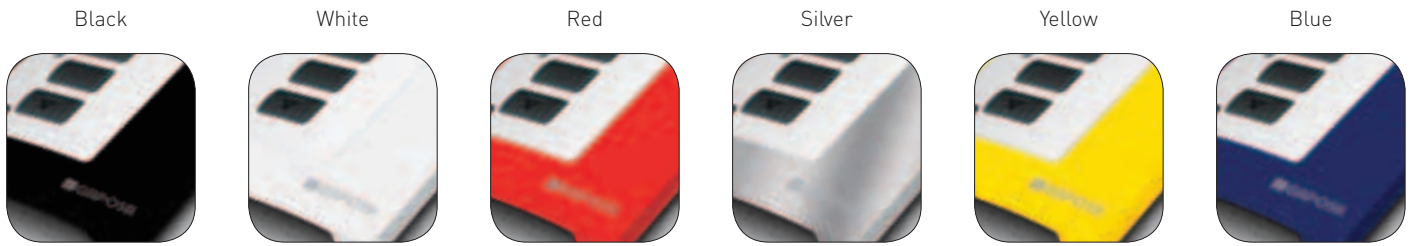
4 channels transmitter



# Features

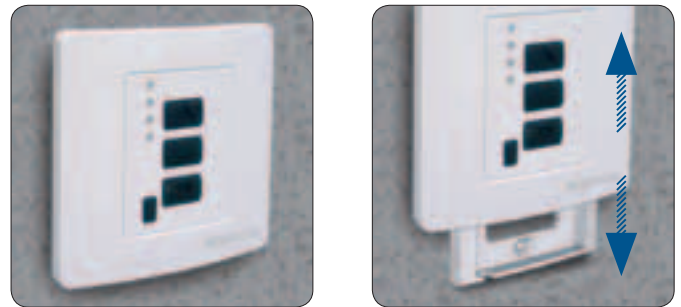
## Available colors

Available in different combinations of finishes: black, white, red, silver, yellow and blue.





## Wall bracket

QCTAB is a wall mounted transmitter as well as a hand-held device if you slide it off its bracket.



## Technical details

	 868MHz		 434MHz	
	QCTAB	QCTAB4	QCTAB	QCTAB4
Channels	1	4	1	4
Frequency	868,30 MHz		434,15 MHz	
Power supply	3V mod. CR2430		3V mod. CR2430	
Battery life	2 year		2 year	
Radiated power	0,150 mW		0,150 mW	
Protection rate	IP40		IP40	
Coverage (int/ext)	20 m / 200 m		20 m / 200 m	
Encoding	RC Gaposa		RC Gaposa	
Working temperature	-5°C / +40°C		-5°C / +40°C	
Dimensions	80 x 80 x 14 mm		80 x 80 x 14 mm	
Weight	55 g		55 g	

# Transmitters

434MHz

## QCT1

1 channel transmitter

The basic model suitable for the control of a single motor or a group of motors.

## QCT6

6 channels transmitter

The model suitable for the control of 6 motor or group of motors.

## QCTD

Multifunction transmitter with 90-channels display

- Programmable functions
- Digital clock
- Timer
- 6 groups of 15 channels each

## QCTL

1 channel dual control transmitter

With dedicated buttons you can turn the lights ON/OFF and activate/deactivate the sun sensor.



Available colors

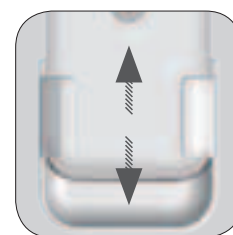


White



Black

Wall bracket



## Technical details

	QCTD	QCT6	QCT1	QCTL
Channels	90	6	1	1
Frequency	434,15 MHz			
Power supply	3V - CR2450	3V - CR2430		
Battery life	2 years			
Radiated power	0,150 mW			
Protection rate	IP40			
Coverage (int/ext)	20 m / 200 m			
Encoding	RC Gaposa			
Working temperature	-5°C / +40°C			
Dimensions	47x125x18 mm			
Weight	65 g	57 g		

## QCT3S / QCT34S

*Polyvalent 1/4 channels transmitter*



The traditional models suitable for the control of a single or a group of motors. These transmitters, fixed to the wall, can be hand held if removed from its base.

	QCT3S	QCT34S
<b>Channels</b>	1	4
<b>Power supply</b>	3V - CR2430	
<b>Battery life</b>	2 years	
<b>Frequency</b>	434,15 MHz	
<b>Radiated power</b>	0,150 mW	
<b>Protection rate</b>	IP40	
<b>Coverage (int/ext)</b>	20 m / 200 m	
<b>Encoding</b>	RC Gaposa	
<b>Working temp.</b>	-5°C /+40°C	
<b>Dimensions</b>	70x70x17 mm	
<b>Weight</b>	46 g	

## QCTDEK / QCDEK4

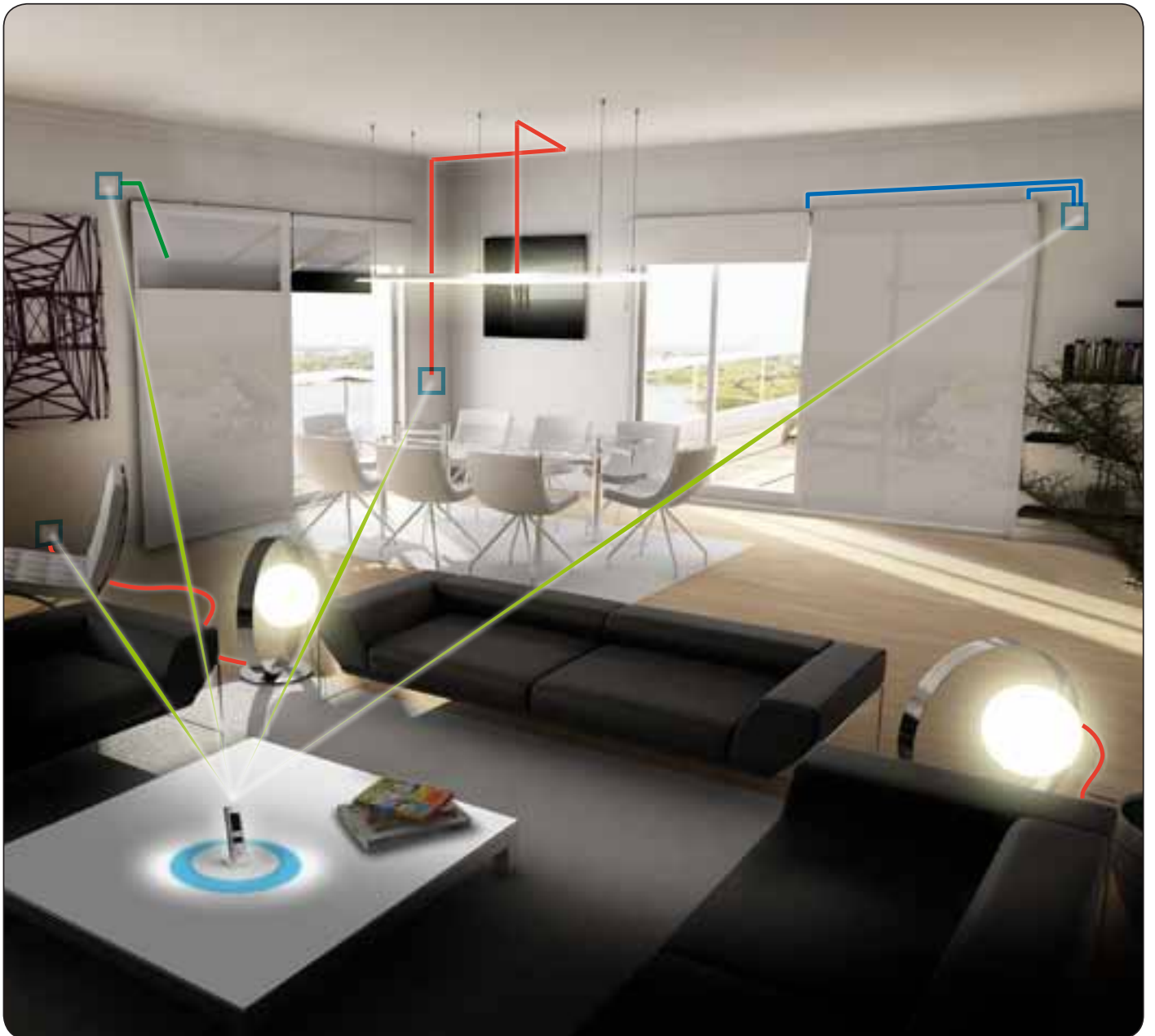
*1/4 channels wall mounted transmitter*



Wall mounted transmitter to suit the Decora standard (USA). It can be matched with all the RI motors and all the residential control units of the GAPOSA range.

	QCTDEK	QCDEK4
<b>Channels</b>	1	4
<b>Power supply</b>	3V - CR2430	
<b>Battery life</b>	2 years	
<b>Frequency</b>	434,15 MHz	
<b>Radiated power</b>	0,150 mW	
<b>Protection rate</b>	IP40	
<b>Coverage (int/ext)</b>	20 m / 200 m	
<b>Encoding</b>	RC Gaposa	
<b>Working temp.</b>	-5°C /+40°C	
<b>Dimensions</b>	standard DECORA	
<b>Weight</b>	23 g	

# Radio receivers





## Control units for 1 phase motors

### QCX09 (QC09 <sup>434MHz</sup>)



Power supply (V~)	230 - 50 Hz (±10%)
Frequency (MHz)	868.30 434.15 (QC09)
Motor power (W)	500
Number of codes	31 x up-stop-down
Protection rate	IP55 IP20 (QCXTAG)
Working temperature	-10°C /+60°C
Dimensions (mm)	133 x 50 x 25 Ø 57 x 27 (QCXTAG)
Weight (g)	65

### QCXTAG



## Control units for lights

### QCXL (QCRL <sup>434MHz</sup>)



Power supply (V~)	230 - 50 Hz (±10%)
Frequency (MHz)	868.30 434.15 (QCRL)
Lamps power (W)	1000 (resistive load)
Protection rate	IP55 IP20 (QCXTAL)
Working temperature	-10°C /+60°C
Dimensions (mm)	133 x 50 x 25 Ø 57 x 27 (QCXTAL)
Weight (g)	65

### QCXTAL



## Main features

Compact radio control unit for awnings and shutters. It features an input for a cable switch button (sequential logic). It can be connected to a wind sensor allowing the selection of 5 different sensitivity levels. When set outdoors it is duly protected by a watertight IP55 box.

- Input for a control button with sequential logic
- Input for a wind sensor
- Remote control

Mini-control unit for the remote control of motors and lights. It fits in only 58 mm diameter slot. It is ideal to be integrated with Gapos motors, climatic sensors and the roll.app smart home system.

- Compact size 57 mm diameter x 27 mm height



### QCT3SD

*Dry contact panel – 1 channel*



This panel with integrated transmitter enables to interface a R (radio) motor or a network of R (radio) motors with a home automation system. In this way, the home automation system will control the radio motor(s) through the UP/STOP/DOWN signals.

The setting of the QCT3SD panel with the R (radio) motor is accomplished via any standard GAPOSA transmitter.

Power supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	434.15
Fuse (mA)	315
Protection rate	IP44
Working temperature	-10°C /+60°C
Dimensions (mm)	145 x 145 x 59
Weight (g)	340

### QCT36SD

*Dry contact panel – 6 channels*



This panel with integrated transmitter enables to interface a network of R (radio) motors with a home automation system. In this way the home automation system will control the radio motors through the UP/STOP/DOWN signals.

The setting of the QCT36SD panel with the R (radio) motors is accomplished via any standard GAPOSA transmitter.

Power supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	434.15
Fuse (mA)	315
Protection rate	IP44
Working temperature	-10°C /+60°C
Dimensions (mm)	190 x 225 x 88
Weight (g)	2450

## QCK1M

Module for group control



QCK1M is a module for a network of motors under the same centralized control. The operational logic of the module gives priority to the main control button over the individual ones and to the UP command over the DOWN one. This configuration enables the possibility to install maintained control buttons for the individual control button and to connect to a module a control unit with the wind sensor facility.

This module has an electric inter-lock forbidding power supply to both directions.

*A simple module for complex systems.*

Power supply (V~)	230 - 50/60 Hz
Absorption (W)	0.7
Temporization at exit	120 s
Exit	10 A - 250V~
Working temperature	-10°C /+60°C
Dimensions (mm)	43 x 43 x 20
Weight (g)	50

## QCM2K

Relay for group control



QCM2K is a relay for a network of motors working in various combinations: it can set simple group controls divided into individual groups or into centralized subgroups. For each subgroup an additional relay is required.

This relay has an electric inter-lock power supply to both directions whereas the control circuit is completely separated from the power supply circuit.

*A simple module for complex systems.*

Power supply (V~)	230, 50Hz, ±10%
Tension	230V, 50Hz, ±10%
Power of commutation	6A, 250 V~ max motor power 750W
Working temperature	-10°C /+60°C
Dimensions (mm)	52 x 49 x 22
Weight (g)	55

### QCWSSX 868MHz

### QCWSSR 434MHz

Radio operated sun wind sensor

QCWSSR allows a wireless communication with Gaposia radio motors.

It performs a:

**wind protection function:** the patio awning or the exterior roller shade will automatically retract when wind exceeds a preset speed value.

**sunshade function:** the sun sensor will extend or retract the awning depending on light intensity based on a complex algorithm.

- Protection rate IP54
- ± 90° adjustment
- Bearings in ceramics
- 4 light/5 wind sensitivity levels
- Wireless with active operational control through the dedicated transmitter

### QCWSX 868MHz

### QCWSR 434MHz

Radio operated wind sensor

QCWSR allows a wireless communication with Gaposia radio motors.

It performs a:

**wind protection function:** the patio awning or the exterior roller shade will automatically retract when wind exceeds a preset speed value.

- Protection rate IP54
- ± 90° adjustment
- Bearings in ceramics
- 5 wind sensitivity levels
- Wireless with active operational control

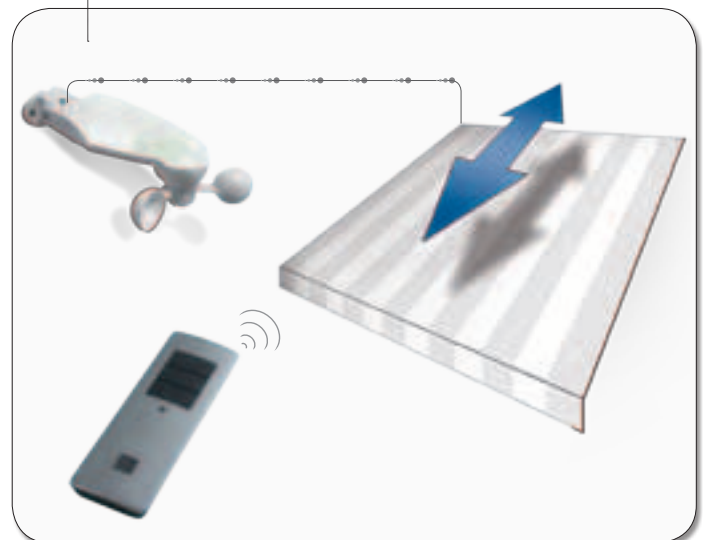
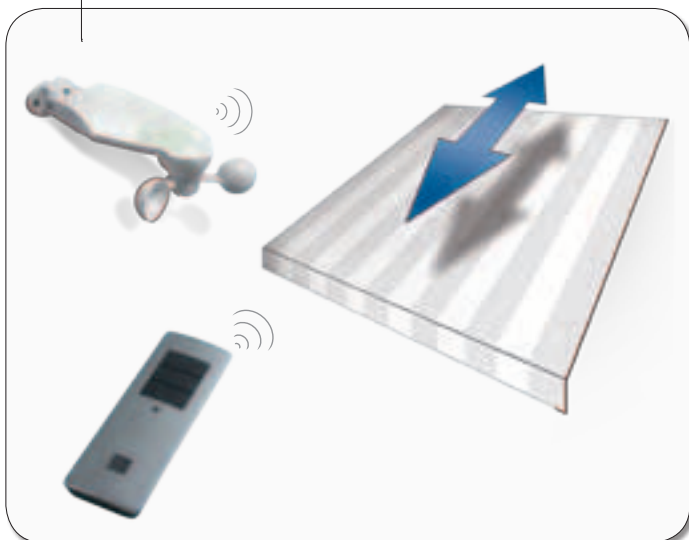
### QCWS

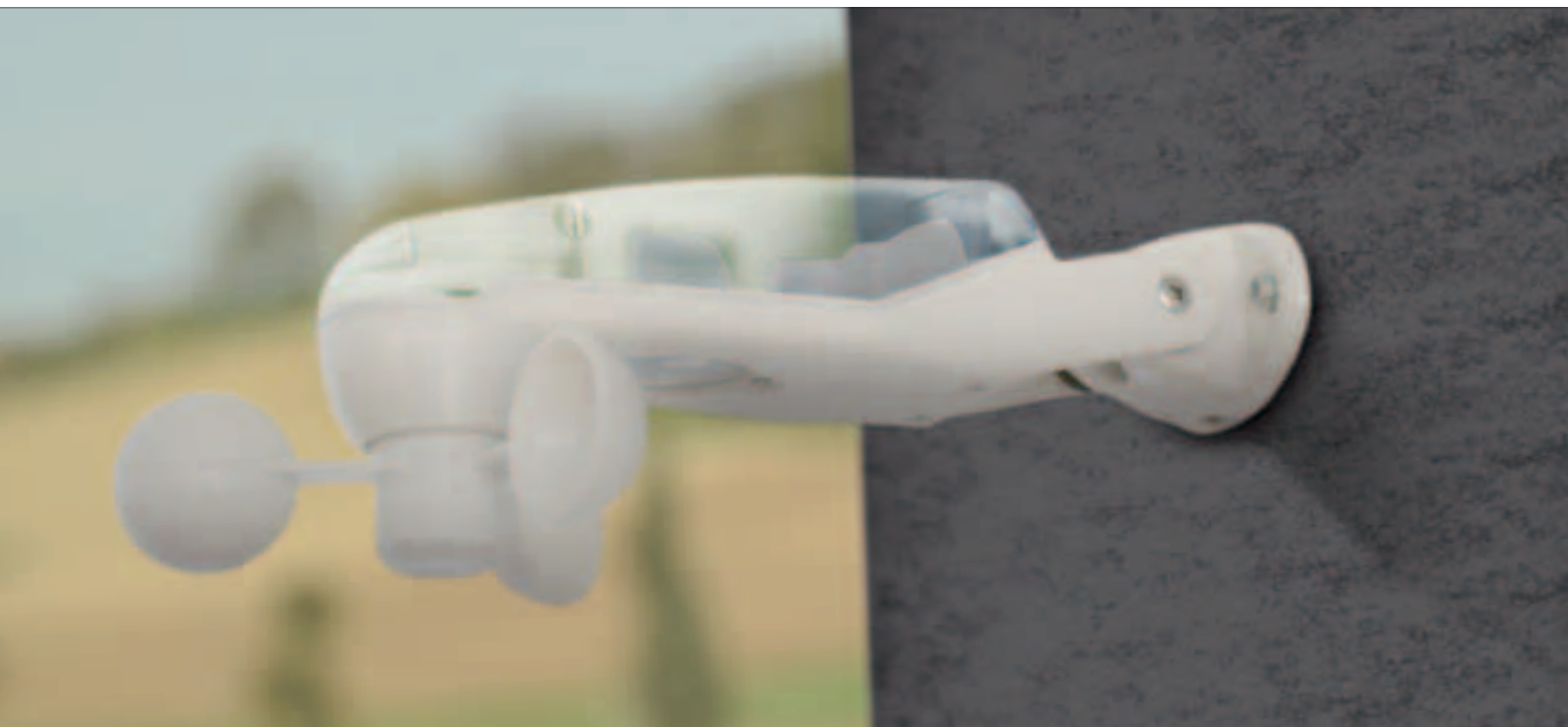
Wired wind sensor

QCWS has a direct connection with the radio motors through 2 wires.

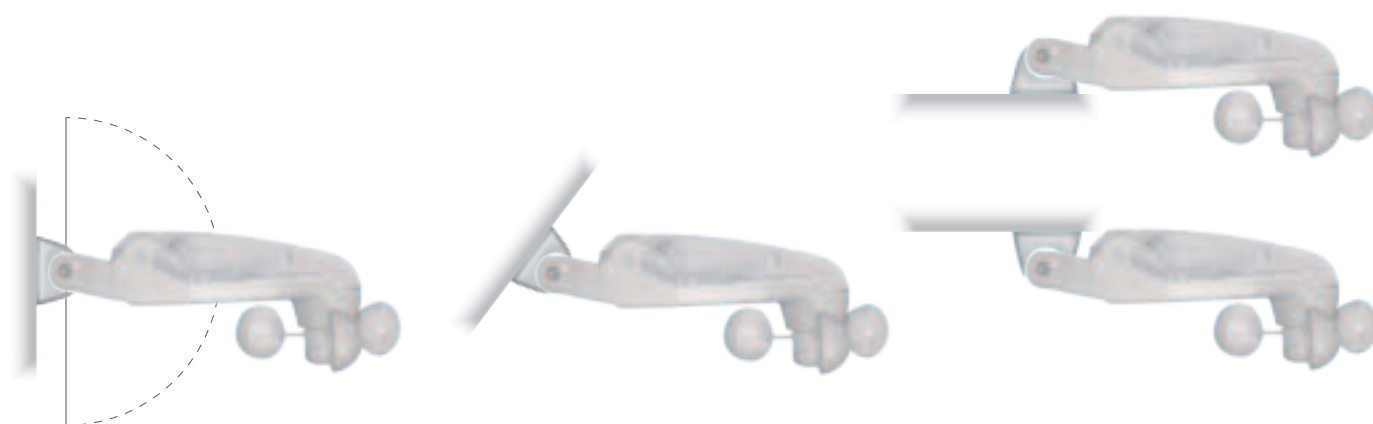
It protects the patio awnings or the exterior roller shades from winds exceeding a preset speed value

- Protection rate IP54
- ± 90° adjustment
- Bearings in ceramics
- 5 wind sensitivity levels





## ± 90° adjustment



## Technical details

	QCWSSX	QCWSSR	QCWSX	QCWSR	QCWS
Power supply	230V~ 50 Hz				
Frequency	868,30 MHz	434,15 MHz	868,30 MHz	434,15 MHz	//
Sun sensor (4 levels)	5 / 20 / 40 / 60 Klux		//		//
Coverage (int/ext)	20 m / 200 m				//
Wind sensor (5 levels)	10 / 20 / 30 / 40 / 50 Km/h				
Protection rate	IP54				
Working temperature	-5°C /+40°C				
Dimensions	270 x 120 x 90 mm				

# Climatic sensors

Residential and corporate environment



868MHz

## QCXSUN

Radio sun sensor for screens, awnings and shutters



434MHz

## QCSSUN

Sun sensor for screens

## QCTSUN

Sun sensor for awnings and shutters

Radio device automatically operating radio motors according to sun light intensity. It is a user-friendly radio device with a suction cup for an easy window pane installation.

It features buttons for the 3 main selections:

- ON/OFF switch
- UP/DOWN manual control
- Light sensitivity setting



## Features

It performs:

- A sunshade protection moving the shutter/shade/awning to the intermediate position.
- A feature which provides a better thermal control of the house and an energy saving impact.
- A constant house-hold light intensity during the day
- A twilight function closing automatically the shutter/shade/awning when the light intensity is below a preset level.

## Technical details

	QCXSUN	QCTSUN	QCSSUN
<b>Power supply</b>	3V mod. CR2450		
<b>Battery life</b>	2 years		
<b>Frequency)</b>	868.30 MHz	434.15 MHz	
<b>Coverage (Int/Ext)</b>	20m / 200m		
<b>Sun sensor (3 levels)</b>	5 / 30 / 60 klux		
<b>Protection rate</b>	IP40		
<b>Working temperature</b>	-5°C /+40°C		
<b>Dimensions</b>	35x70x15 mm		
<b>Weight</b>	30 g		

### ACPPES

*2 momentary buttons (thin type) switch*

ACPPE is a momentary switch for the control of one motor. For connection of more than one motor on the same switch button the QCK1M or QCM2K group control module (pag. 77) is required.

### ACPPEF

*2 maintained buttons (thin type) switch*

ACPPEF is a momentary switch for the control of one motor. For connection of more than one motor on the same switch button the QCK1M or QCM2K group control module (pag. 77) is required.



### ACPEGS

*2 momentary buttons switch*

ACPEG is a momentary switch that can be installed both in a flush-mounted box or with a wall-plate.

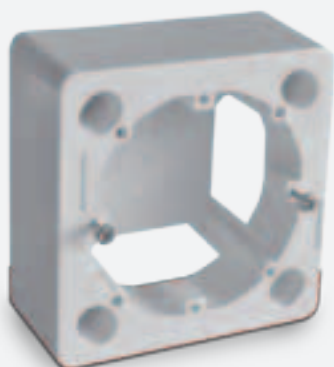
For connection of more than one motor on the same switch button the QCK1M or QCM2K group control module (pag. 77) is required.

### ACPEFGS

*2 maintained buttons switch*

ACPEFG is a maintained switch that can be installed both in a flush-mounted box or with a wall-plate.

For connection of more than one motor on the same switch button the QCK1M or QCM2K group control module (pag. 77) is required.



### ACPEGS

Wall-plate for  
ACPEG/ACPEFG

80x80x37 mm



# Transmitters - technical details

	QCTX1	QCTX2	QCTX5	QCTXS
Power supply	3V mod. CR2430			
Battery life	2 years			
Frequency	868,30 MHz			
Radiated power	0,150 mW			
Protection rate	IP40			
Coverage (int/ext)	20 m / 200 m			
Channels	1	2	5	1
Encoding	RC Gaposa			
Working temperature	-5°C /+40°C			
Dimensions	40x120x15 mm			
Weight	57 g			

	QCTR1	QCTR2	QCTR5	QCTRTR	QCTRL	QCTRS
Power supply	3V mod. CR2430					
Battery life	2 years					
Frequency	434,15 MHz					
Radiated power	0,150 mW					
Protection rate	IP40					
Coverage (int/ext)	20 m / 200 m					
Channels	1	2	5		1	
Encoding	RC Gaposa					
Working temperature	-5°C /+40°C					
Dimensions	40x120x15 mm					
Weight	57 g					

	QCXTAB	QCXTAB4	QCTAB	QCTAB4
Power supply	3V mod. CR2430			
Battery life	2 years			
Frequency	868,30 MHz		434,15 MHz	
Radiated power	0,150 mW			
Protection rate	IP40			
Coverage (int/ext)	20 m / 200 m			
Channels	1	4	1	4
Encoding	RC Gaposa			
Working temperature	-5°C /+40°C			
Dimensions	80x80x14 mm			
Weight	55 g			

	QCTD	QCT6	QCT1	QCT3S	QCT34S	QCTDEK	QCTDEK4
Power supply	3V mod. CR2450	3V mod. CR2430					
Battery life	2 years						
Frequency	434,15 MHz						
Radiated power	0,150 mW						
Protection rate	IP40						
Coverage (int/ext)	20 m / 200 m						
Channels	90	6	1	1	4	1	4
Encoding	RC Gaposa						
Working temperature	-5°C /+40°C						
Dimensions	47x125x18 mm			70x70x17 mm		standard DECORA	
Weight	65 g	57 g		46 g		23 g	



A series of horizontal dotted lines spanning the width of the page, intended for handwriting practice. The lines are evenly spaced and extend across the entire width of the page.



**Drives and  
controls for  
industrial  
and  
commercial  
doors**

---

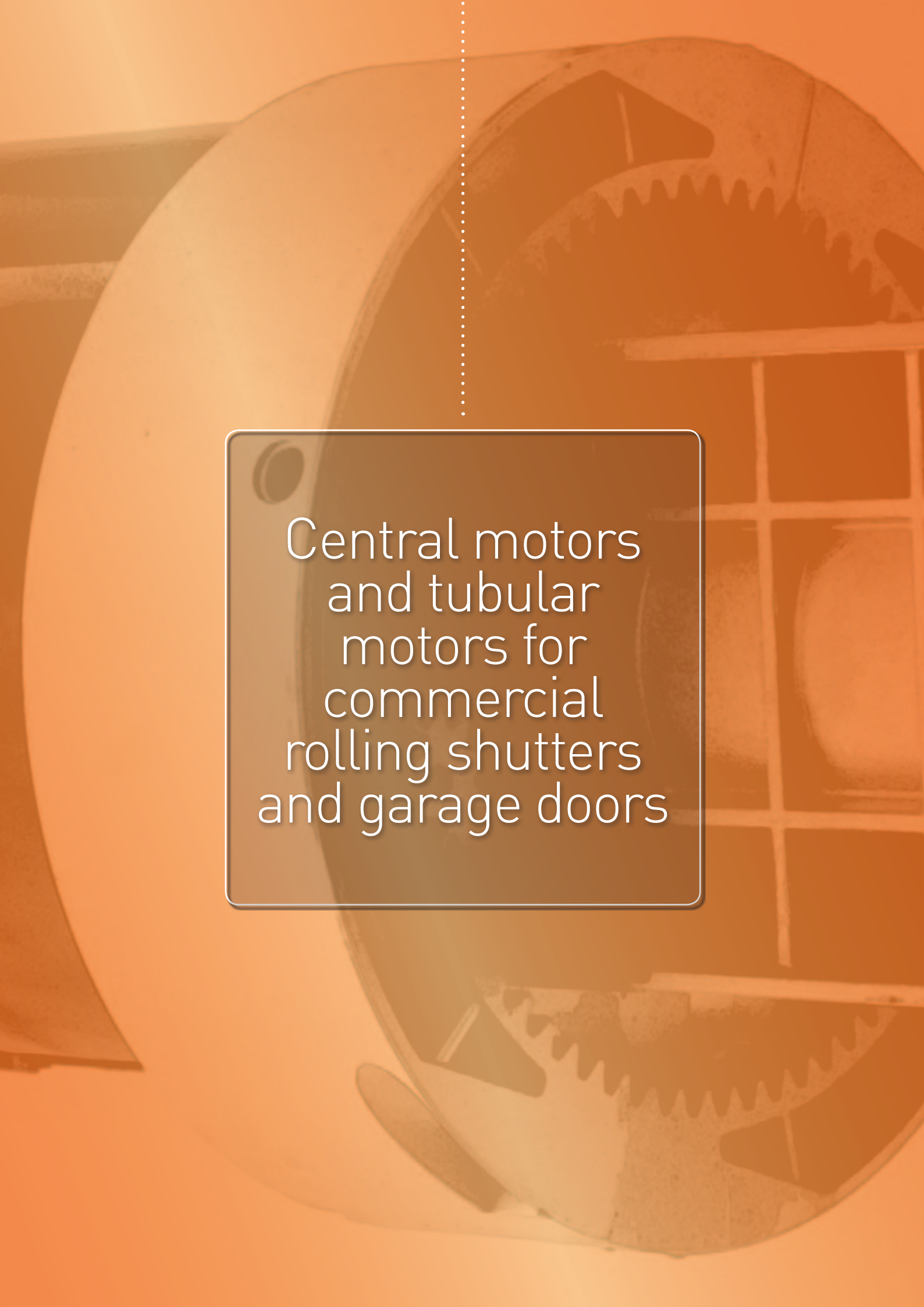


.....

89	Split
92	Split Euro-pack
94	XQ80
96	Adapters & brackets
100	Sidone LP25012T
102	Sidone LP7045 / LP6090
104	Sidone LP400T / 550T / 650T
106	Basic diagrams, accessories & selection table
108	Sidone KTC
110	Basic diagrams, accessories & selection table
113	SZX
116	Basic diagrams & accessories
119	Safety brakes
123	Adjustable caps
124	Selection tables

.....





Central motors  
and tubular  
motors for  
commercial  
rolling shutters  
and garage doors

# SPLIT



*The Split motor is a milestone in the history of our company. It was the first type of motor Gaposa developed 45 years ago. It is a central operator for rolling doors and shop fronts with springs*

Split is made up of:

- a drive wheel
- a planetary gearmotor assembly
- an integrated limit assembly

The gearmotor assembly is irreversible when it is provided with an electromagnetic brake. A declutch device is always supplied together with the brake.

## Additional details

---

### ► EUROPEAN DIRECTIVES

Split is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### ► DUTY RATING

The Split is a single phase motor so its daily use is limited. It is perfect for garage doors and shop fronts, rolling shutters or grills while it is not recommended for doors requiring an intensive use such as parking entries.

### ► OVERLOAD SAFETY FACTOR

Motor overload safety factor = 2 x the nominal motor amperage because the starting current of the Split can reach these levels for short periods.

### ► OUTPUT SPEED

The maximum admissible speed depends on the construction and type of door. The admissible closing speed shall be tuned in order to allow the operating forces to comply with EN 12453.

### ► MANUAL OPERATION

The Split without brake is a reversible motor so any manual operation of the door is possible by direct raising or lowering the door manually. The door must be well counter balanced.  
The Split motor with brake is irreversible so the manual operation is only possible after declutching the electromagnetic brake. In both types of motors a spring safety brake is required (see the Split Euro-pack section on pag. 92). The counter-balancing system should be inspected at least once a year.

# SPLIT

Motors for spring balanced doors, shop fronts & garage doors



SPLIT SQ**140**  
 SPLIT SQ**160**  
 SPLIT SQ**190**  
 SPLIT SQ**270**



SPLIT SQ**140**SE  
 SPLIT SQ**160**SE

Upgraded model

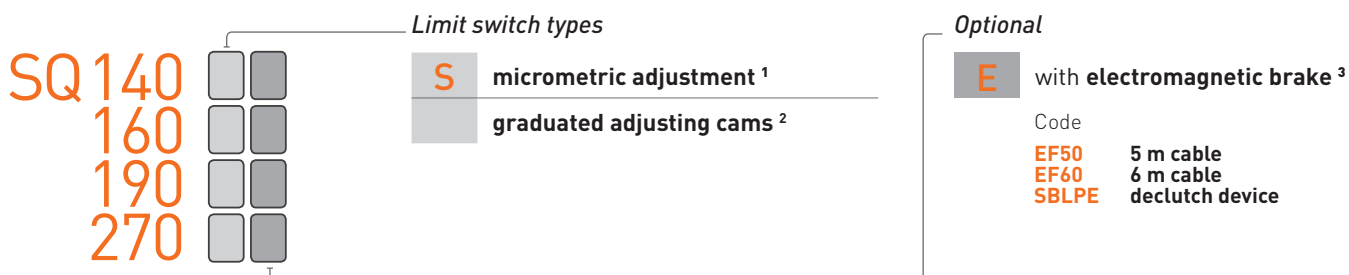


SPLIT SQ**270**SE



SPLIT SQ**190**SE

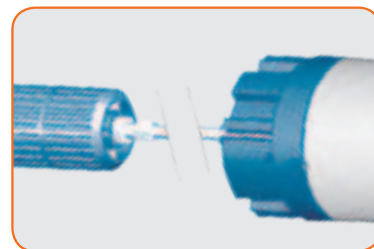
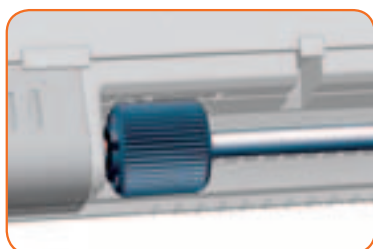
## Range



<sup>1</sup> Limit switch micrometric adjustment.

<sup>2</sup> Limit switch graduated adjusting cams.

<sup>3</sup> Electromagnetic brake with cable for declutch device.

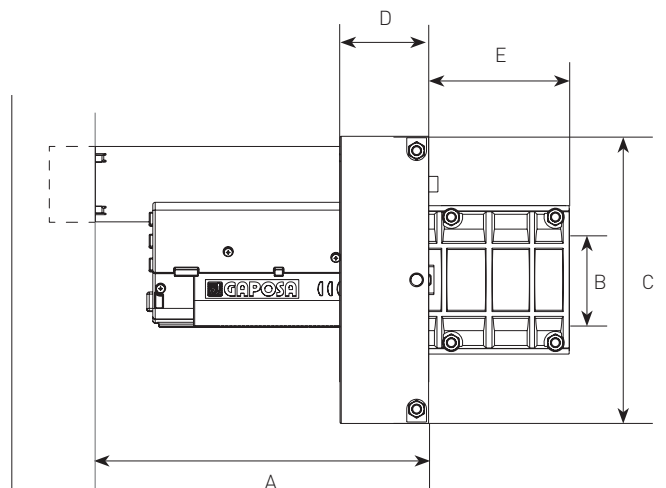
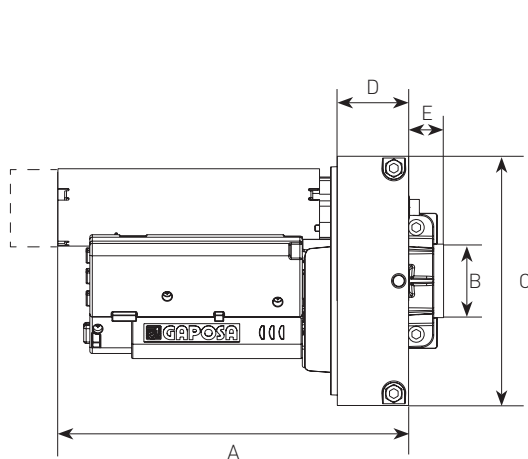


# SPLIT 140 / 160 / 190 / 270

## Technical details

	<b>SQ140S</b>	<b>SQ160S</b>	<b>SQ190S</b>	<b>SQ270S</b>
Torque (Nm)	140	160	190	270
Power Supply (V)	230	230	230	230
Frequency (Hz)	50	50	50	50
Absorption (A)	1.9	2	2.2	3
Power (W)	390	450	495	670
Protection Rate (IP)	42	42	42	42
Duty Rating (Min)	4	4	4	4
Output Speed (Min <sup>-1</sup> )	10	10	9	9
Limit Switch Max. Turns	8	8	7	7
Weight (Kg)	6.2	7	9.2	12

## Dimensions



SEGMENT	<b>SQ140S / SQ160S</b>	<b>SQ190S / SQ270S</b>
A (mm)	285 (361 Ver. <b>E</b> )	279 (355 Ver. <b>E</b> )
B (mm)	60 (48 with collars)	76
C (mm)	200 (220 with extension wheel)	240
D (mm)	58	74
E (mm)	23	117

A system specifically designed to ease the installation of motorised and non motorised garage and commercial doors.

With the SPLIT Euro-pack system GAPOSA offers a functional and reliable solution.



## Typical installation

- 1 Spring bracket with safety micro-switches
- 2 Torsional spring suitable for the SPLIT Euro-pack
- 3 Drum with integrated safety brake

## Additional details

- Fast and easy installation
- No side space
- Reliable and long lasting system
- Easy manual override
- Nylon covered pulleys for the best shutter slat protection
- Drums with bearings for the maximum smoothness

The **SPLIT Euro-pack** advantages and features are underlined by an analysis of the European rule EN12604:

### Paragraph 4.3.4, requirement:

"[...] *The anti-drop safeguard shall be automatically activated in the event of a suspension failure*"

The *SPLIT Euro-pack* is the only system which fully comply with this requirement. In fact, the commonly used inertial safety brake does not lock the shutter after a spring's breakage, widely ignoring this important requirement.

### Paragraph 4.7.1:

"[...] *Precautions shall be taken to prevent ejection of springs or springs coils in the event of spring breakage*".

Only the torsional springs used in the *SPLIT Euro-pack* respect this condition!  
The traditional compensation spring boxes obviously cannot comply with this requirement.



## Summary table

Number and type of springs according to the size of the shutter\*:

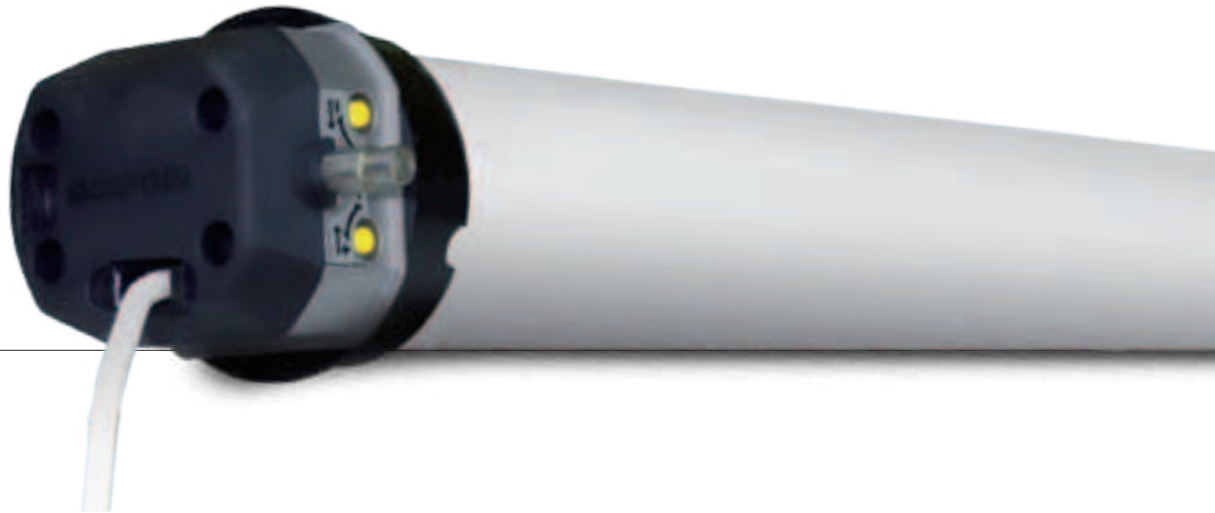
Shutter's height	Shutter's weight	7 Kg/m <sup>2</sup>						10 Kg/m <sup>2</sup>						12.5 Kg/m <sup>2</sup>						
		Shutter's width		1.5m	2m	2.5m	3m	3.5m	4m	1.5m	2m	2.5m	3m	3.5m	4m	1.5m	2m	2.5m	3m	3.5m
2 m	Weight (kg)	21	28	35	42	49	56	30	40	50	60	70	80	37.5	50	62.5	75	87.5	100	
	Spring number	1	1	2	2	2	2	1	1	2	2	2	2	1	2	2	2	2	2	2+1
	Spring type (Kg)	6,5	7	6,5	6,5	7	7	7.5	7.5	7	7.5	7.5	7.5	7.5	7	7.5	7.5	7.5	7.5	7.5 / 7
	Nr. of turns	4,5	4	3,5	4,5	3,5	4	3.5	4.5	3.5	3.5	3.5	4.5	4	3.5	3.5	4	4.5	4	
	Weight (kg)	26,25	35	43,75	52,5	61,25	70	37.5	50	62.5	75	87.5	100	47	62.5	78	94	110	123	
2.5 m	Spring number	1	1	2	2	2	2	1	1	2	2	2	2	1	2	2	2	2+1	2+1	
	Spring type (Kg)	6,5	7	6,5	7	7	7	7.5	7.5	7	7.5	7.5	7.5	7.5	7	7.5	7.5	7.5	7.5 / 7.5	7.5 / 7
	Nr. of turns	5	4,5	4,5	3,5	4	5	4.5	5	4.5	4	4.5	5	5	4.5	4.5	5	4.5	5	
	Weight (kg)	31,5	42	52,5	63	73,5	84	45	60	75	90	105	120	56	75	94	112.5	132	150	
3 m	Spring number	1	1	2	2	2	2	1	1	2	2	2	2	1	2	2	2	2+1	2+1	
	Spring type (Kg)	7	7,5	6,5	7	7	7	7.5	7.5	7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5 / 7	7.5 / 7
	Nr. of turns	4,5	4,5	5,5	4,5	5	5,5	4.5	6	5	5	5.5	6	6	4	5	6	5	5.5	
	Weight (kg)	36,75	49	61,25	73,5	85,75	98	52.5	70	87.5	105	122.5	140	66	87.5	110	132	154	175	
3.5 m	Spring number	1	1	2	2	2	2	1	2	2	2	2	2+1	1	2	2	1+2	2+1	3	
	Spring type (Kg)	7	7,5	6,5	7	7	7,5	7.5	7	7	7.5	7.5	7.5 / 7.5	7.5	7.5	7.5	7.5	7.5 / 7	7.5 / 7	7.5
	Nr. of turns	5	5	6	5	6	5	5.5	5	6	5.5	6	5.5	6	4.5	5.5	5.5	5.5	5.5	6
	Weight (kg)	42	56	70	84	98	112	60	80	100	120	140	160		100	125	150	175	200	
4 m	Spring number	1	1	2	2	2	2	1	2	2	2	2+1	2+1		2	2	2+1	3	2+2 **	
	Spring type (Kg)	7	7,5	7	7	7,5	7,5	7.5	7	7.5	7.5	7.5 / 7.5	7.5 / 7		7.5	7.5	7.5	7.5 / 7	7.5	7.5 / 7.5
	Nr. of turns	5,5	6	5	6	5	6	6	5.5	5	6	5.5	6		5.5	6	6	6	6	6
	Weight (kg)	42	56	70	84	98	112	60	80	100	120	140	160		100	125	150	175	200	

\*The data in the chart, even though derived by practical tests, must be considered indicative. The real incidence of friction of each shutter, for his intrinsic characteristics, can be different from the hypothesized one; the spring charge will therefore have to be regulated accordingly.

The given data exclusively refer to the number, type and spring charge of shutters according to their weight and dimensions, and do not take into account the structural and bending calculation of the tube used, that remain of exclusive competence and responsibility of the shutter manufacturer. In phase of predisposition of the pulleys and of the Euro-pack springs on the shutter tube, it is necessary to verify that the encumbrances fit with the available width.

\*\*Minimum width 4.2 m





Tubular motors for **rolling doors and large shutters**: robust, powerful and silent for advanced and long lasting performances.

**XQ8P**  
TUBULAR MOTORS

**XQ8M**  
TUBULAR MOTORS WITH  
**MANUAL OVERRIDE**

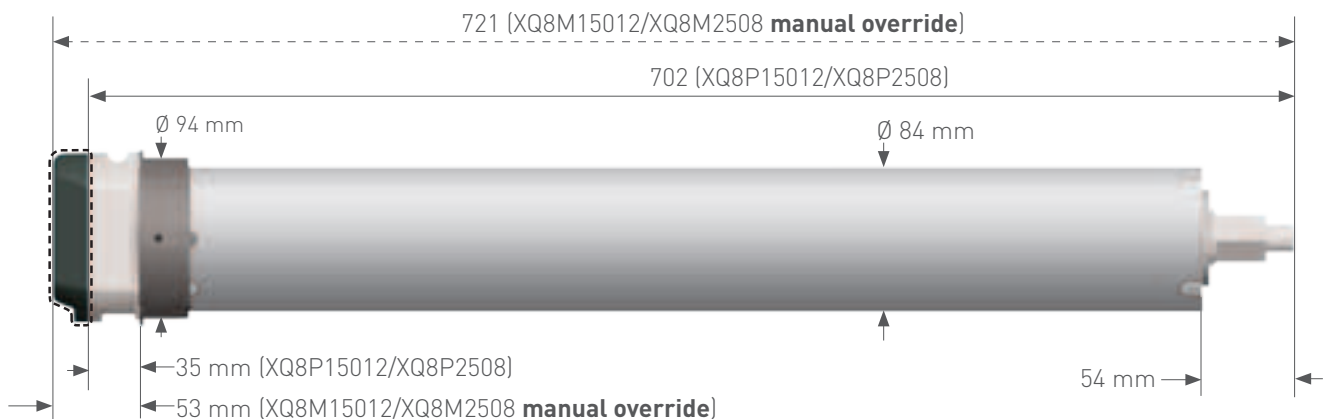
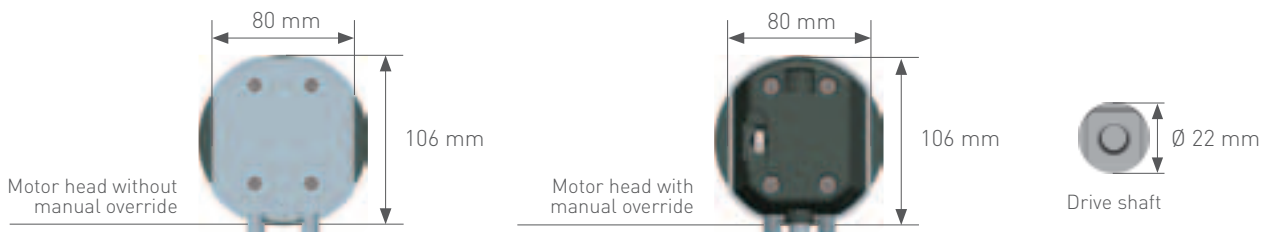
### Main features

Power Supply (V-)	230
Frequency (Hz)	50
Standard cable length (m)	2.5
Working temperature	-10°C/40°C
Duty rating (Min)	4
Protection (IP)	44

### Technical details

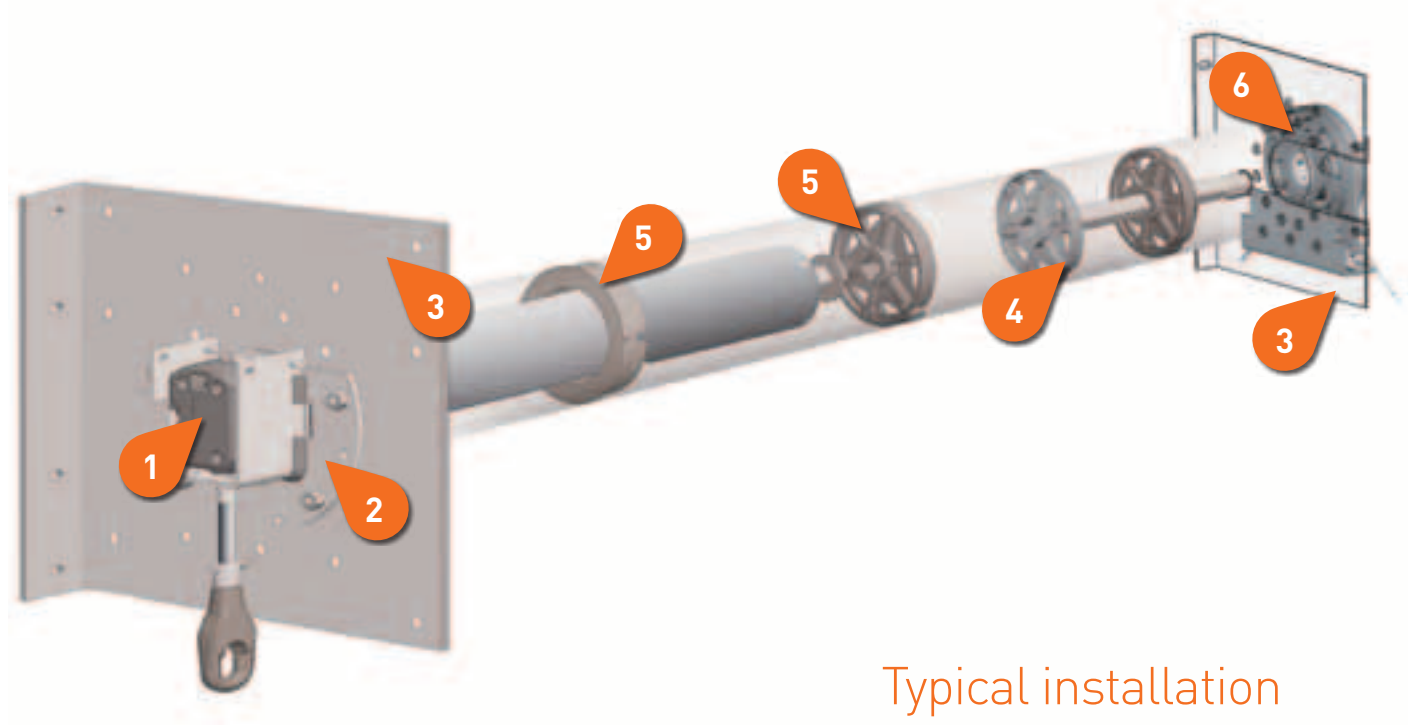
	Torque (Nm)	Speed (rpm)	Power (W)	Absorption (A)	Limit switch max turns
<b>XQ8P15012</b>	150	12	700	3	18
<b>XQ8P2508</b>	250	8	760	3.2	18
<b>XQ8M15012</b>	150	12	700	3	18
<b>XQ8M2508</b>	250	8	760	3.2	18

### Dimensions



## A complete and integrated system

Along with motors and adapters, GAPOSA offers a wide range of brackets, safety brakes and self-aligning end-caps: the most complete system solution.



### Typical installation

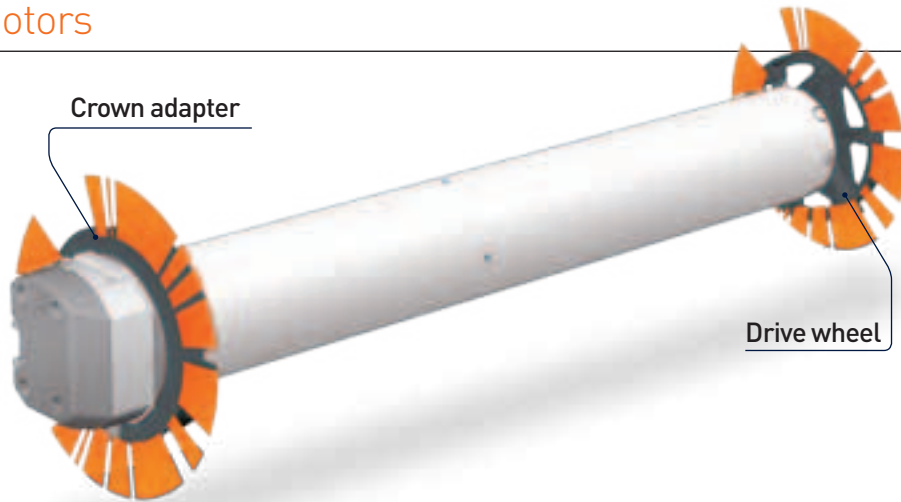
- 1 XQ80 motor
- 2 3 Mounting brackets
- 4 Adjustable cap
- 5 Adapters
- 6 Safety brake (PCM3A)














### Selection table

Ø Tube x thickness (mm) ▶	101.6 x 3.6			133 x 4			159 x 4.5			168 x 4.5		
	3	5	7	3	5	7	3	5	7	3	5	7
Shutter's height (m) ▶												
Max shutter's weight (Kg)												
<b>XQ8P15012 / XQ8M15012</b>	175	153	135	159	141	129	146	134	124	139	131	121
<b>XQ8P2508 / XQ8M2508</b>	292	254	225	265	235	216	243	223	207	231	218	202

# ADAPTERS

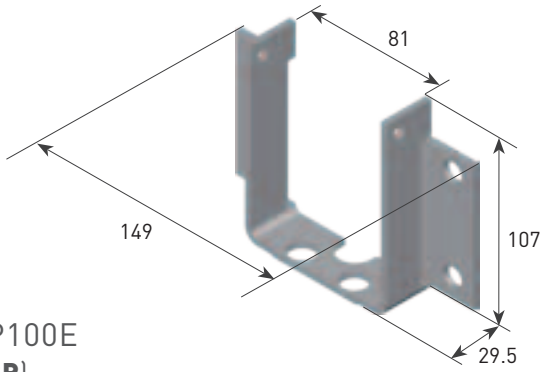
## ■ 80 range motors



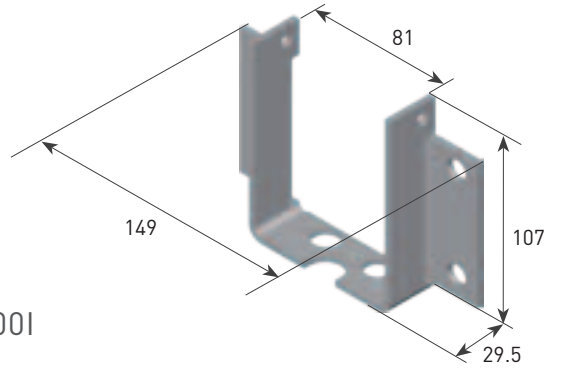
Crown adapter	Drive wheel	Crown adapter	Drive wheel
 <p>Code: AXR1101 Tube: Round / 101.6x3.6 mm</p>		  <p>Code: AXR11012 Tube: Round / 101.6x2.0 mm</p>	
  <p>Code: AXR1133 Tube: Round / 133x2,5 mm</p>		  <p>Code: AXR11334 Tube: Round / 133x4,0 mm</p>	
  <p>Code: AXR1159 Tube: Round / 159x4,5 mm</p>		  <p>Code: AXR1168 Tube: Round / 168x4,5 mm</p>	
  <p>Code: AXR116829 Tube: Round / 168x2,9 mm</p>			

# BRACKETS

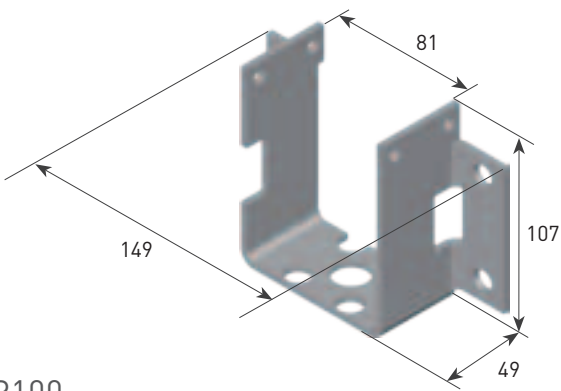
## 80 range motors



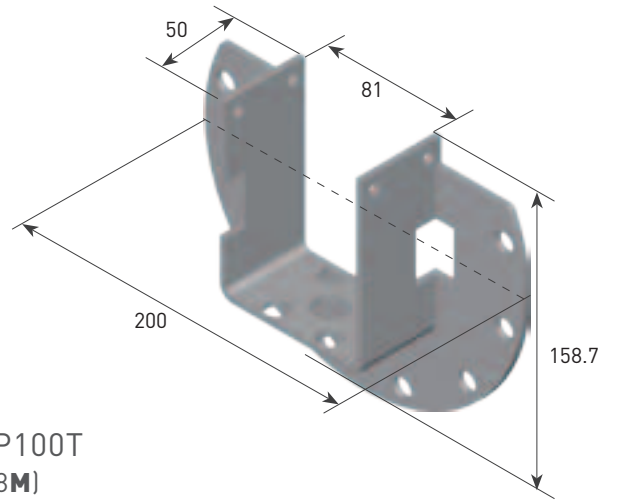
AXP100E  
(XQ8P)



AXP100I  
(XQ8P)



AXP100  
(XQ8M)

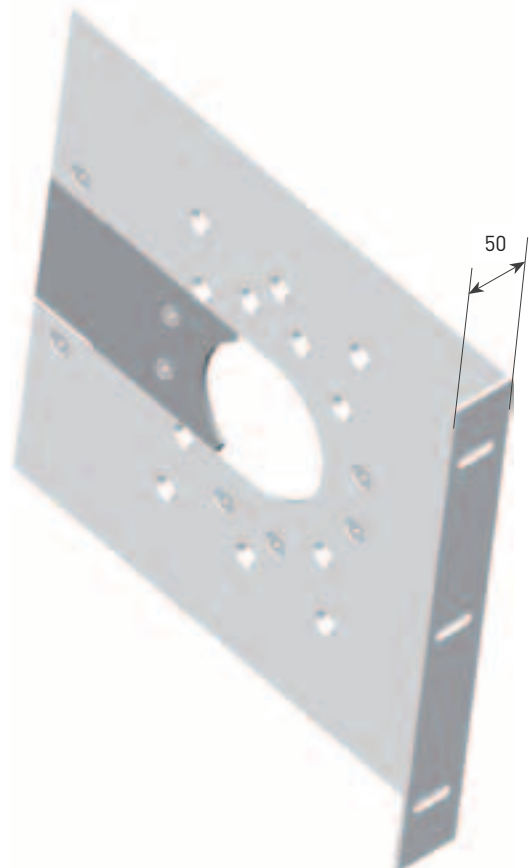
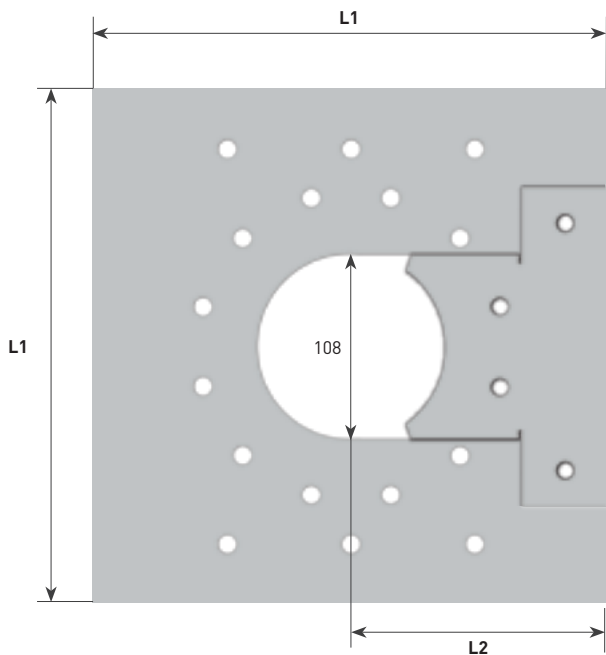


AXP100T  
(XQ8M)

AXP100M30  
L1= 300 mm  
L2= 150 mm

AXP100M34  
L1= 340 mm  
L2= 170 mm

AXP100M40  
L1= 400 mm  
L2= 200 mm



The background is a blurred orange-toned image of mechanical parts, likely from a rolling door system. A vertical dotted line runs down the center of the page. A semi-transparent dark orange rounded rectangle is centered on the page, containing white text.

Drives for  
commercial  
and industrial  
rolling doors



*Sidone is a drive unit for rolling doors designed for a direct drive installation. The chain transmission is an option (see the Sidone KTC section on pag. 108)*

Sidone is made up of:

- A worm gear with hollow shaft
- An integrated safety brake
- An emergency manual operation
- Integrated limit switches
- An electric motor

The self-braking worm gear makes the Sidone irreversible. No need for an electric brake.

## Additional details

---

### ▶ EUROPEAN DIRECTIVES

Sidone is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### ▶ DUTY RATING

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating vary according to the door weight.

### ▶ OVERLOAD SAFETY FACTOR

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the Sidone can reach these levels for short periods.

### ▶ OUTPUT SPEED

The maximum admissible speed depends on the construction and type of door. The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

### ▶ MANUAL OPERATION

The manual override devices (handle or handchain override) when power cuts-off, are based on a max strength of the end user of almost 40kg. In big or extremely heavy shutters the manual override is only intended in down direction.

### ▶ HOLDING TORQUE

The Sidone drive unit, if selected respecting the table on pag. 107/111, is capable of holding the weight of the door without slippage. The holding capability is the admissible load bearing of the worm gear construction.





Side motors with integrated safety brake for garage doors, commercial and industrial shutters.

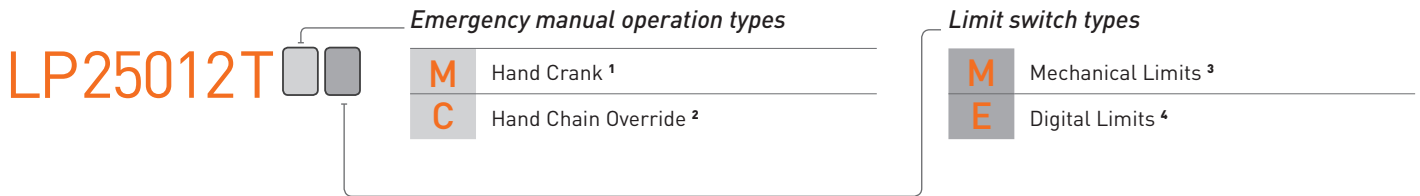


Three-phase

LP25012T



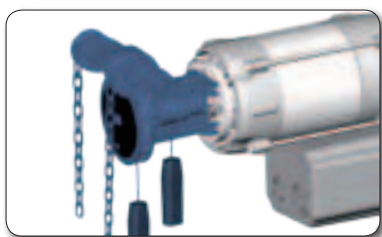
Range



Override options



<sup>1</sup> Hand crank



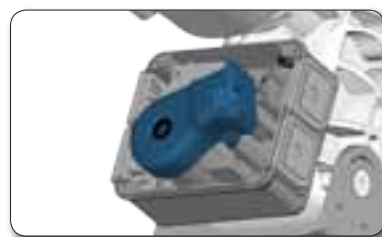
<sup>2</sup> Hand chain override

Limit switch options



<sup>3</sup> Mechanical limits

2 Green cams for operating limits.  
2 Red cams for safety limits.  
2 Yellow cams for auxiliary controls



<sup>4</sup> Digital limits

Absolute encoder.  
No readjustment after power failure





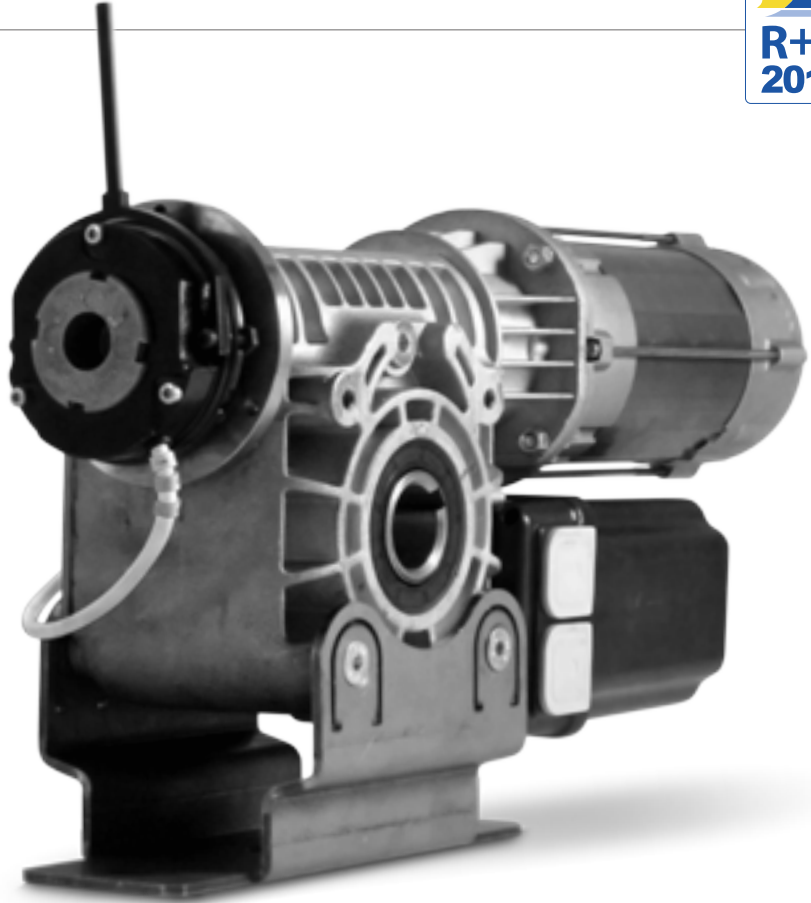
# Side motors with integrated safety brake and operational electro-brake



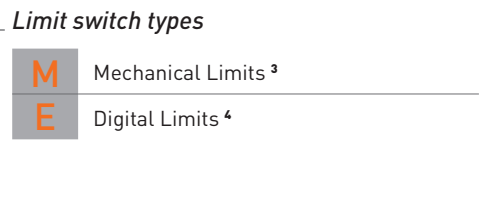
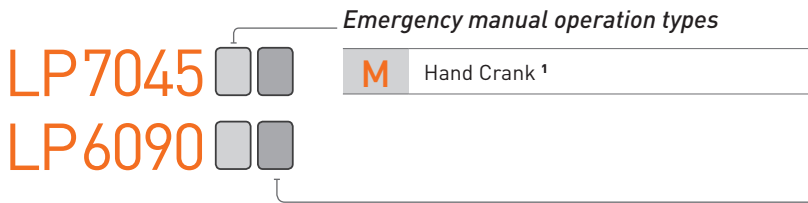
## for rapid doors

Three-phase

LP7045  
LP6090



## Range



## Override options



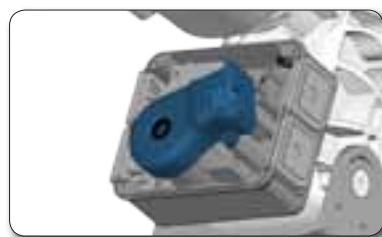
**1 Hand crank**

## Limit switch options



**3 Mechanical limits**

2 Green cams for operating limits.  
2 Red cams for safety limits.  
2 Yellow cams for auxiliary controls

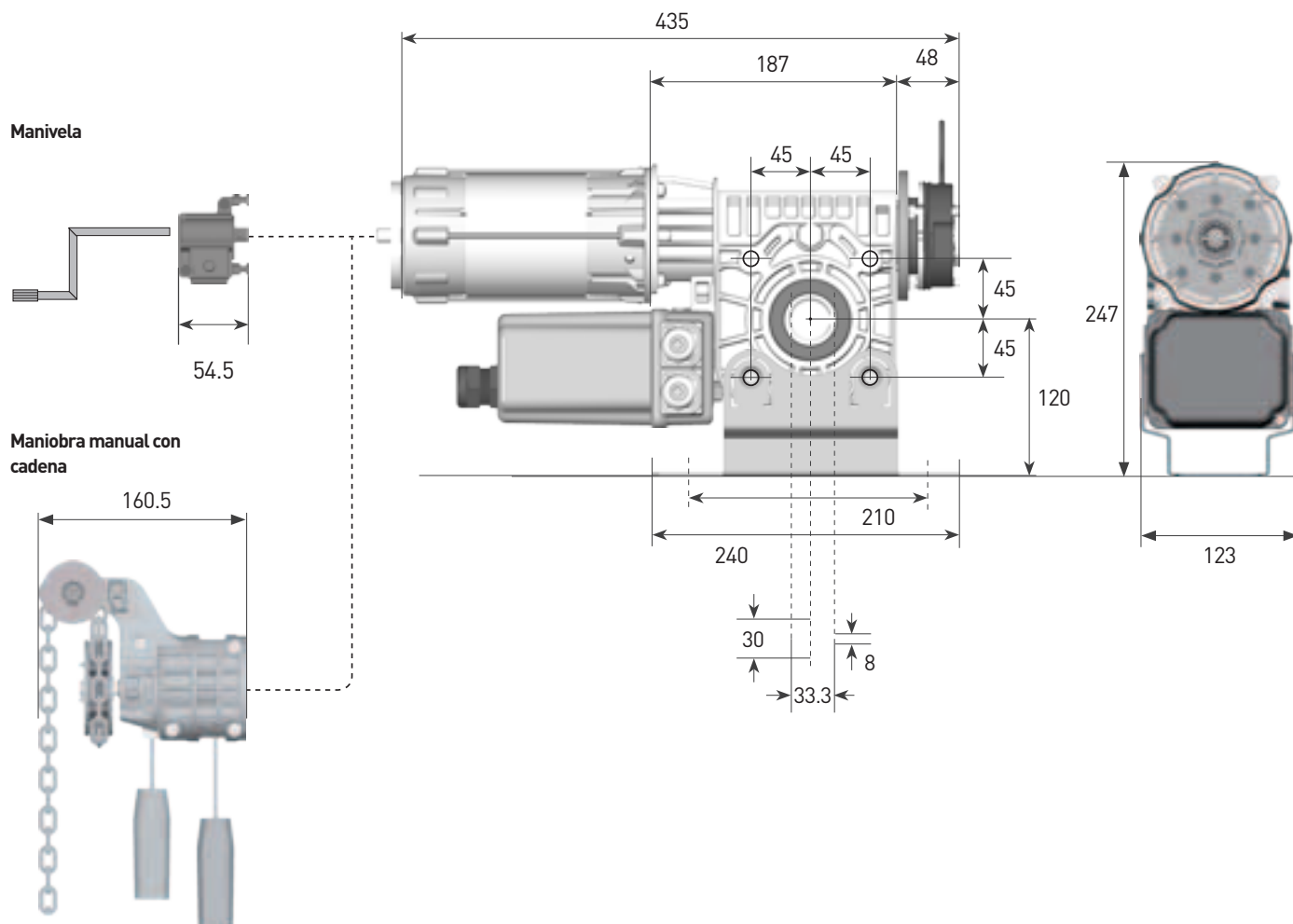


**4 Digital limits**

Absolute encoder.  
No readjustment after power failure

# SIDONE LP7045 / LP6090

## Dimensions (mm)



## Installation



**Basement**



**Flange bracket**

## Technical details

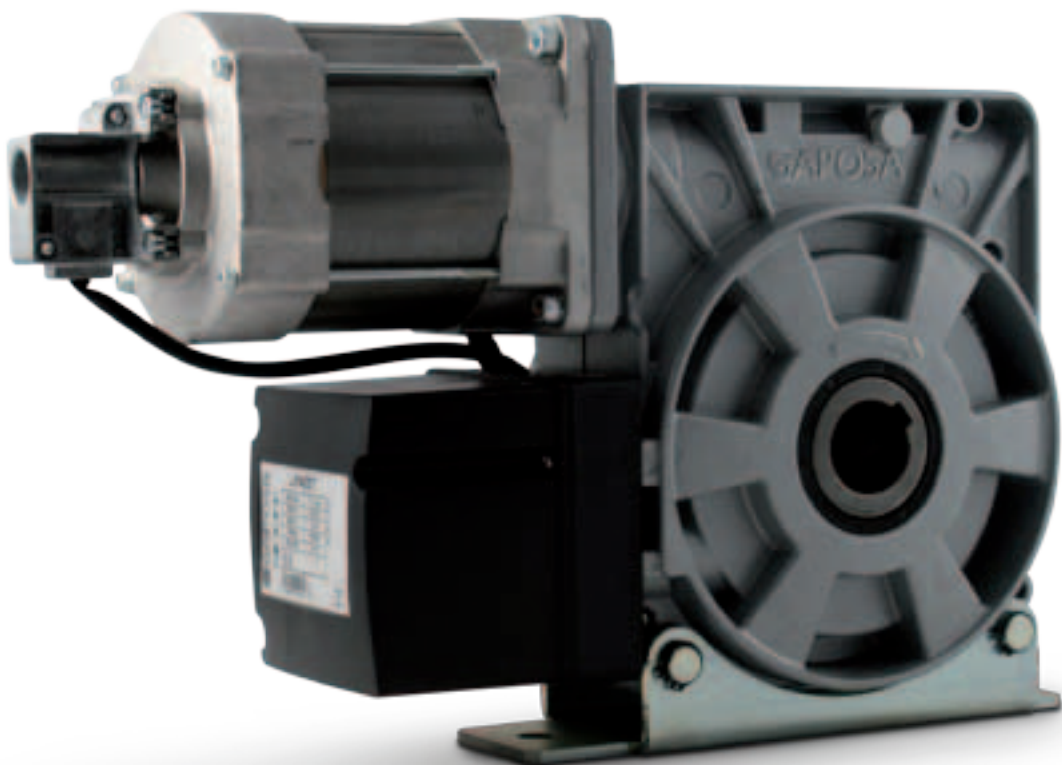
	<b>LP7045</b>	<b>LP6090</b>
Power supply (V~)	400	400
Frequency (Hz)	50	50
Torque (Nm)	70	60
Output speed (min <sup>-1</sup> )	45	90
Power (kW)	0.95	0.95
Absorption (A)	2.5	2.5
Max cycles per hour	30	45
Limit switch max turns	18	18
Working temperature	-5°C/40°C	-5°C/40°C
Protection rate (IP)	54	54



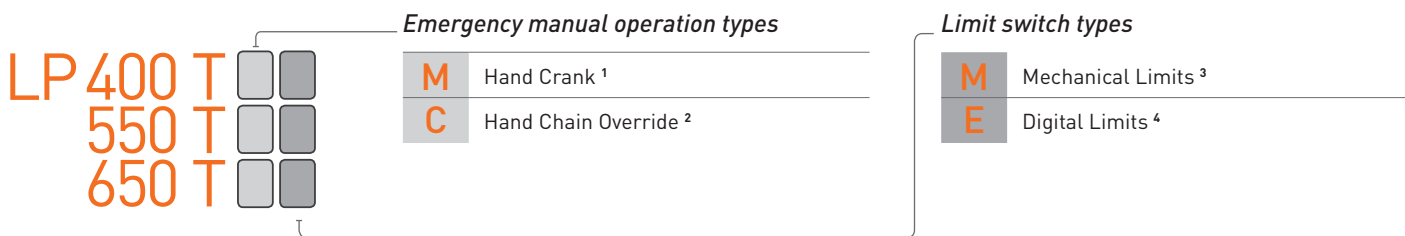
Side motors with integrated safety brake for garage doors, commercial and industrial shutters.

Three-phase

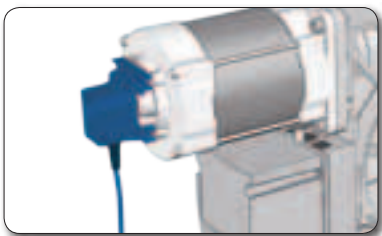
LP400T  
LP550T  
LP650T



### Range



### Override options

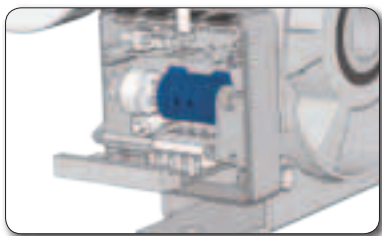


**1 Hand crank**



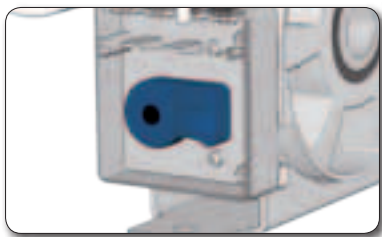
**2 Hand chain override**

### Limit switch options



**3 Mechanical limits**

2 cams for operating limits;  
2 cams for safety limits

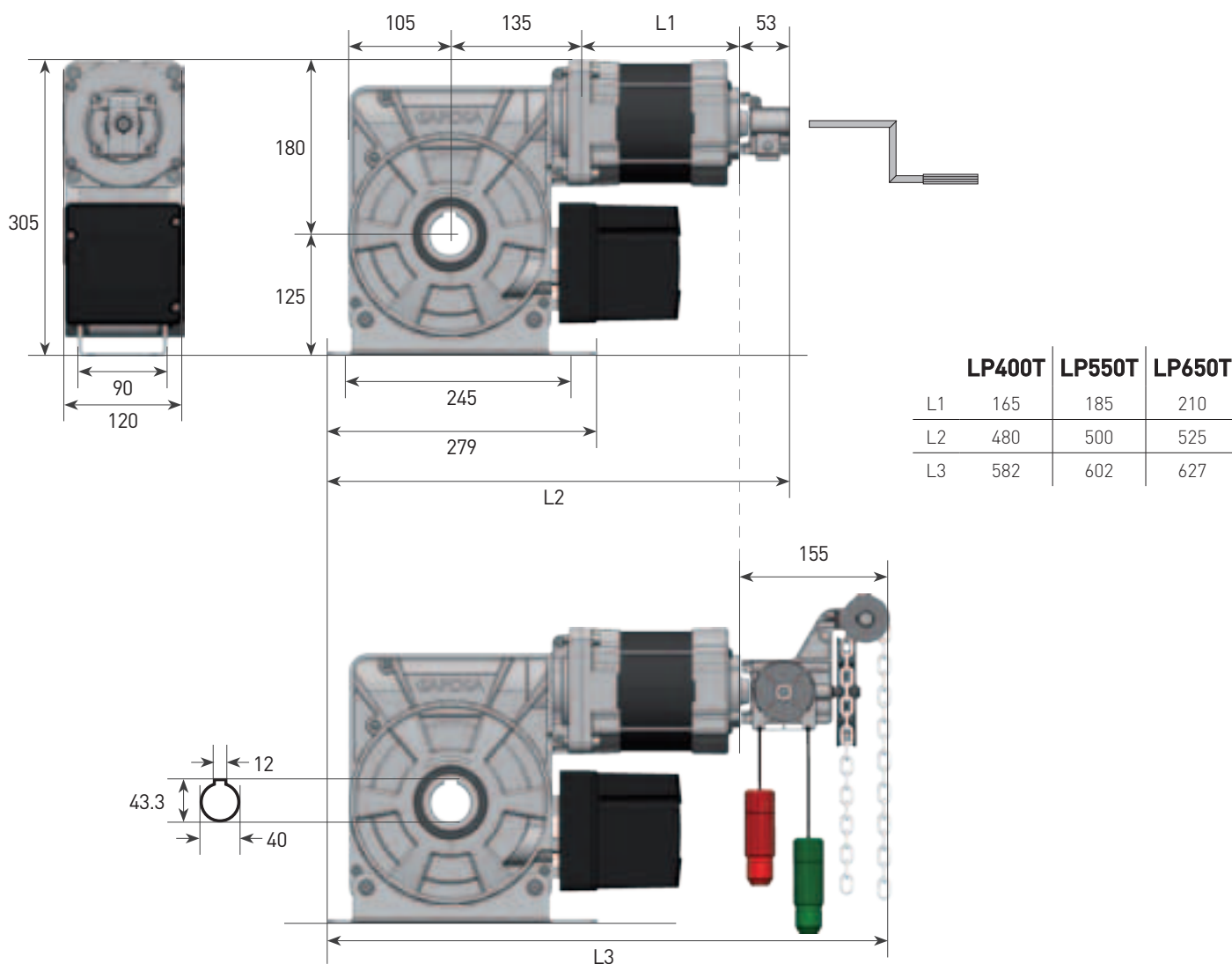


**4 Digital limits**

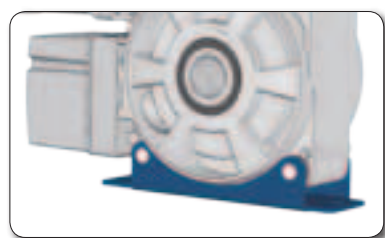
Absolute encoder.  
No readjustment after  
power failure

# SIDONE LP400T / LP550T / LP650T

## Dimensions (mm)



## Installation



Basement with dumping pins

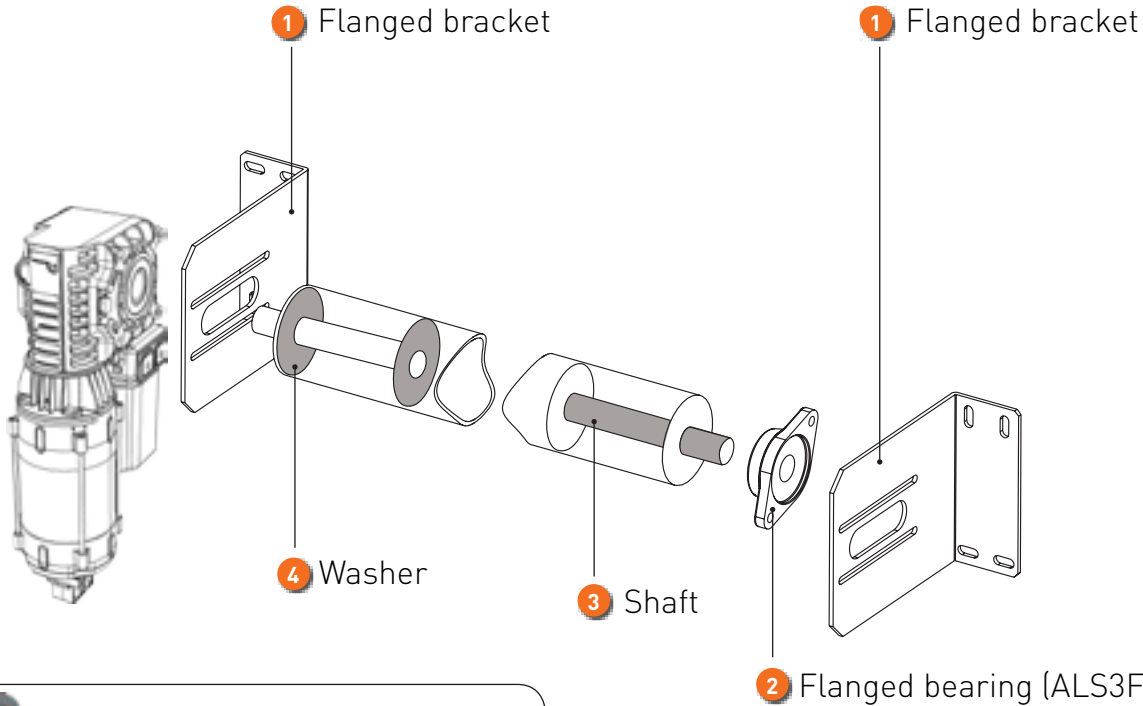
## Technical details

	LP400T	LP550T	LP650T
Power supply (V~)	400	400	400
Frequency (Hz)	50	50	50
Torque (Nm)	400	550	650
Output speed (min <sup>-1</sup> )	11	11	11
Power (kW)	1	1.2	1.5
Absorption (A)	3	3.8	4.5
Duty rating (ED)	S3-60%	S3-50%	S3-50%
Limit switch max turns *	10	10	10
Working temperature	-5°C/40°C	-5°C/40°C	-5°C/40°C
Noise (dB)	<70	<70	<70
Protection rate (IP)	54	54	54
Weight (kg)	28	30	32

\* Upon request version at 48 limit switch max turns.



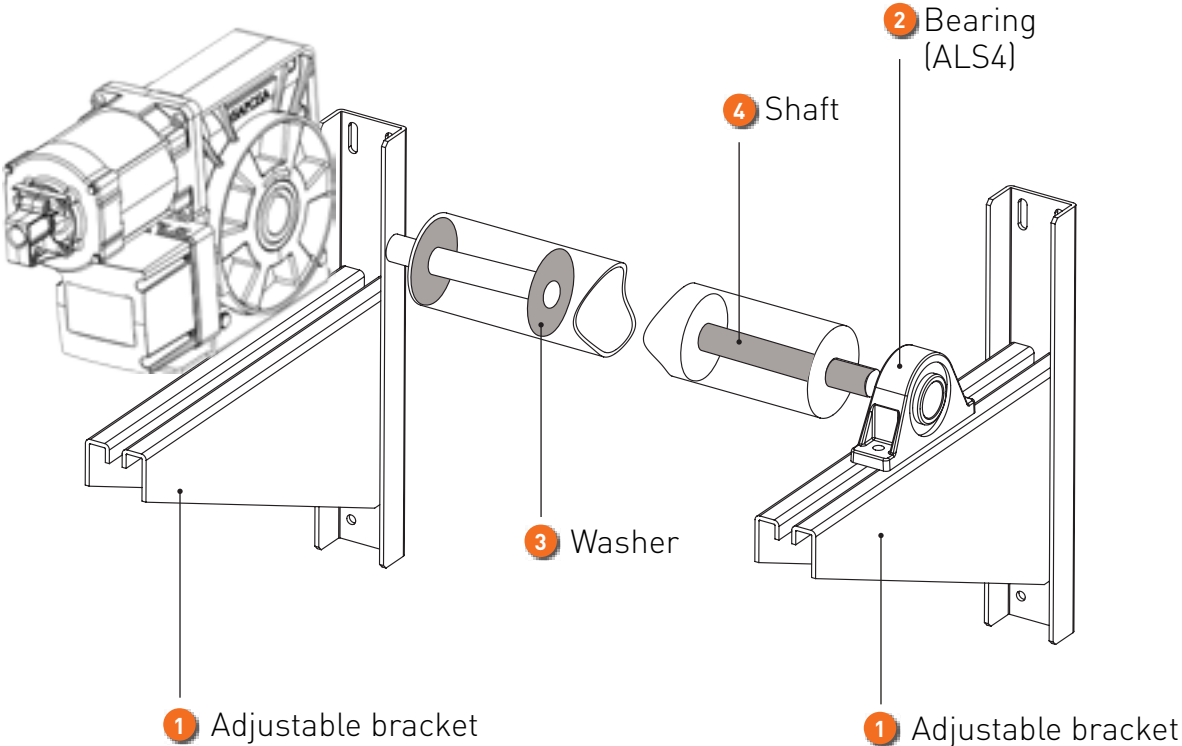
LP25012  
LP7045  
LP6090



1 Hand-chain override  
ASOMCP for LP 25012 / 7045 / 6090  
ASOMC for LP 400/550/650 T

LP 7045  
LP 6090

LP 25012T  
LP 400T  
LP 550T  
LP 650T



<b>1</b>	<b>ACCESSORIES</b>
ASOMCP	Hand-chain override
ASOMC	Hand-chain override
ASOML	Flanged bracket
ASOMV	Vertical bracket
ASOM	Adjustable bracket - Sidone
ASOAB	Miniside/Sidone basement adapter
<b>2</b>	<b>BRACKET BEARINGS</b>
ALS3F	∅ 30 mm bracket bearing
ALS4	∅ 40 mm bracket bearing
<b>3</b>	<b>SHAFTS</b>
ALM3.SF	∅ 30 mm - motor side - 8x7x100 mm feather key- 30 mm circlip
ALP3.SF	∅ 30 mm - bearing side - 8x7x50 mm feather key - 30 mm circlip
ALM4.SF	∅ 40 mm - motor side- 12x8x100 mm feather key - 40 mm circlip
ALP4.SF	∅ 40 mm - bearing side - 12x8x50 mm feather key - 40 mm circlip
<b>4</b>	<b>WASHERS*</b>
AL3101.SF	for 101,1x3,6 tube - 30 mm shaft
AL3133.SF	for 133x4,0 tube - 30 mm shaft
AL3159.SF	for 159x4,5 tube - 30 mm shaft
AL3168.SF	for 168,3x4,5 tube - 30 mm shaft
AL3178.SF	for 177,8x5,0 tube - 30 mm shaft
AL3193.SF	for 193,7x5,4 tube - 30 mm shaft
AL4133.SF	for 133x4,0 tube - 40 mm shaft
AL4159.SF	for 159x4,5 tube - 40 mm shaft
AL4168.SF	for 168,3x4,5 tube - 40 mm shaft
AL4178.SF	for 177,8x5,0 tube - 40 mm shaft
AL4193.SF	for 193,7x5,4 tube - 40 mm shaft
AL4219.SF	for 219,1x5,9 tube - 40 mm shaft
AL4244.SF	for 244,5x6,3 tube - 40 mm shaft
AL4273.SF	for 273,0x7,1 tube - 40 mm shaft
AL4298.SF	for 298,5x7,1 tube - 40 mm shaft
AL4323.SF	for 323,9x7,2 tube - 40 mm shaft

\*Further dimensions and diameters are available upon request.

## Selection table

The selection table already considers a 20% friction for single wall shutters. It is necessary to add a further friction percentage for double wall shutters and relevant slat thickness.

∅ Tube (mm)	Shutter's height (m)	LP 25012	LP 400 T	LP 550 T	LP 650 T
		Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)
101.6x3.6	3	289			
	5	252			
	7	223			
133x4	3	265	424	582	688
	5	235	376	518	612
	7	216	345	475	561
159x4.5	3	232	371	510	603
	5	223	358	492	581
	7	207	331	455	537
168x4.5	3	226	362	497	588
	5	213	340	468	553
	7	197	315	433	512
177.8x5.0	3	215	344	473	559
	5	202	324	445	526
	7	187	299	412	486
193.7x5.4	3		319	439	519
	5		300	413	488
	7		278	382	452
219.1x5.9	3		285	391	462
	5		268	368	435
	7		248	341	403

Three-phase

**L800KTC**  
**L1000KTC**  
**L1300KTC**  
**L1500KTC**  
**L2000KTC**

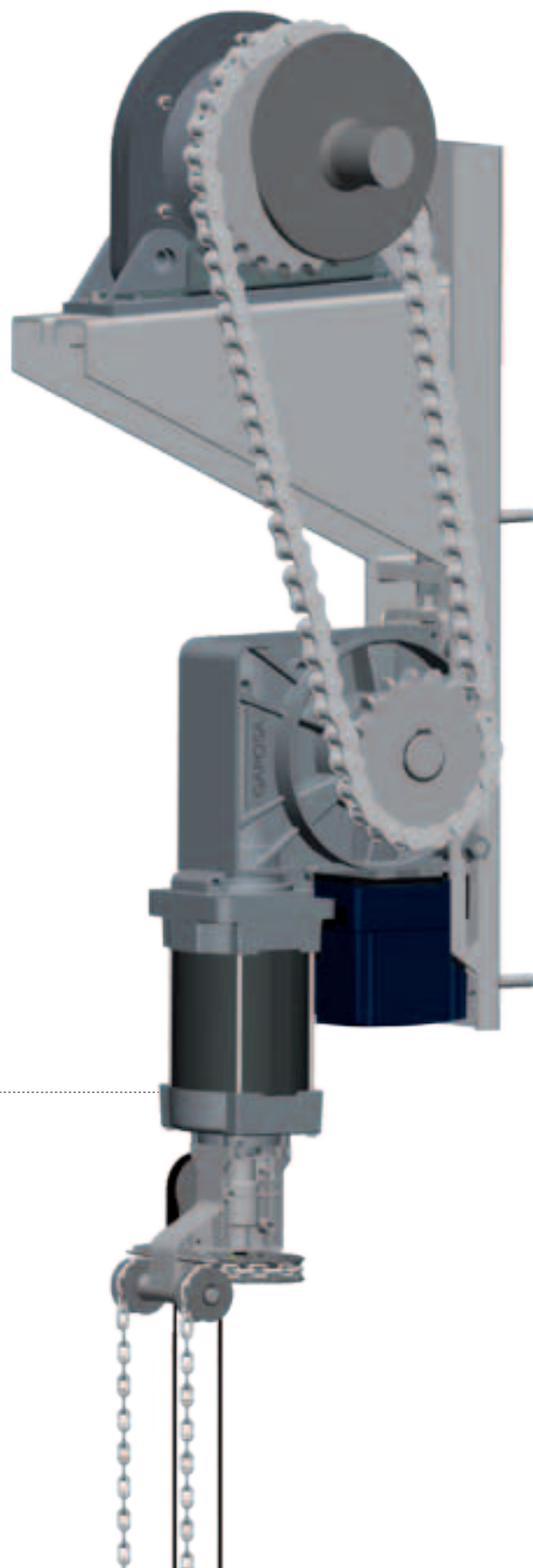
Sidone KTC is a special assembly for heavy industrial doors. In installations with these motors the door rolling tube is driven by a chain transmission.

An inertial safety brake of appropriate size is required and considered in the assembly.

Due to the interchangeability of the output shaft the assembly can be installed on the left or on the right side of the door.

### The set is made up of:

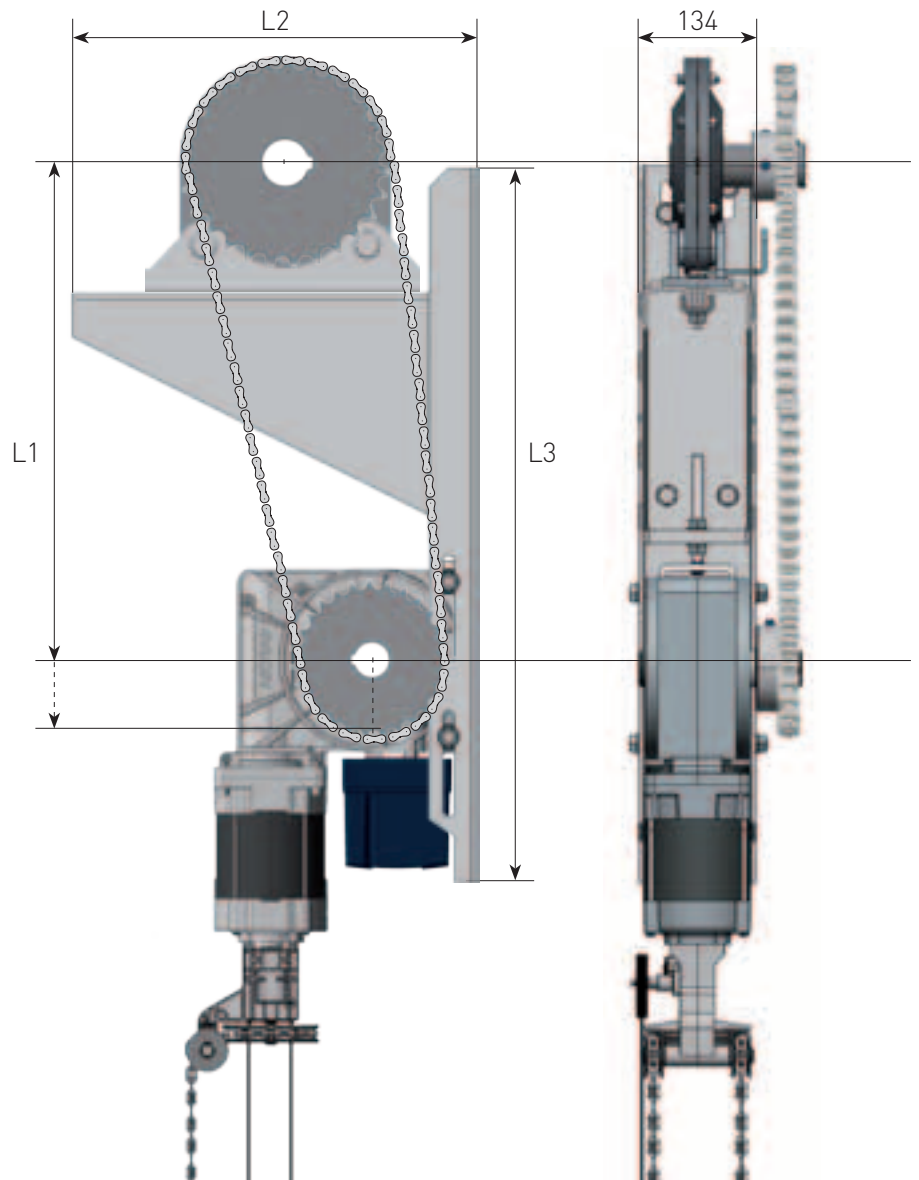
- The Sidone motor without integrated brake and with mechanical limit switch
- A safety brake (M10A, M15A or M20A according to the type of assembly)
- A special bracket for the chain transmission
- Sprockets, chain and a set of screws.



# SIDONE L 800 / 1000 / 1300 / 1500 / 2000 KTC

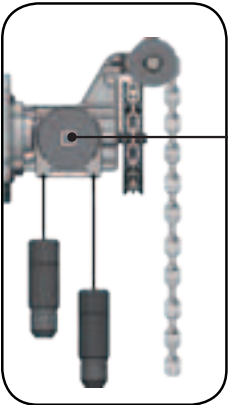
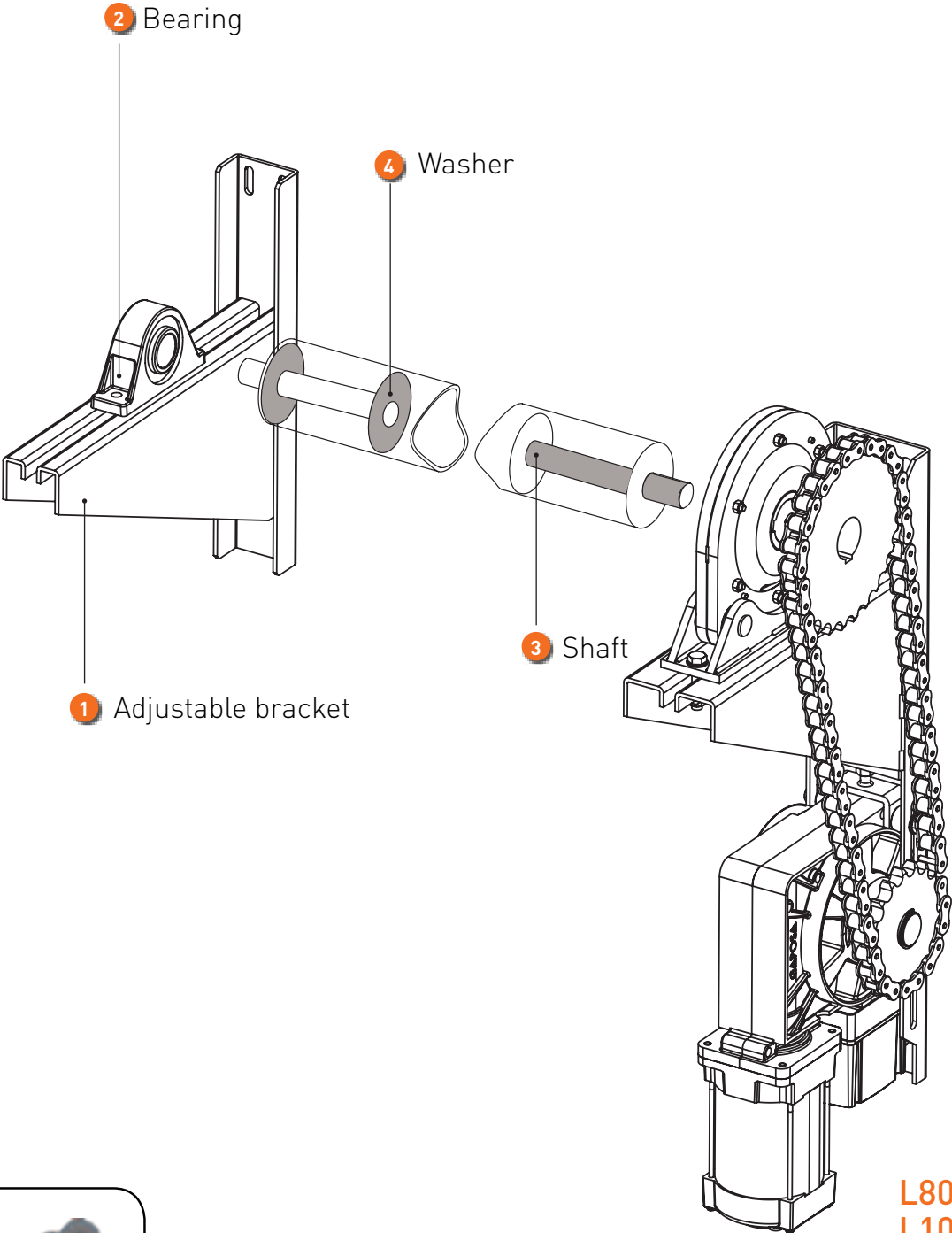
## Dimensions (mm)

	L 800KTC L 1000KTC L 1300KTC L 1500KTC	L 2000KTC
L1	551 (615)	629.5 (734.5)
L2	455	607.5
L3	800	850



## Technical details

	L 800 KTC	L 1000 KTC	L 1300 KTC	L 1500 KTC	L 2000 KTC
Power supply (V~)	400	400	400	400	400
Frequency (Hz)	50	50	50	50	50
Torque (Nm)	800	1000	1300	1500	2000
Output speed (min <sup>-1</sup> )	7.5	6	4.5	4	3
Power (kW)	1.5	1.5	1.8	2	2.2
Absorption (A)	3.8	3.8	5	5	5.5
Duty rating (ED)	S3-50%	S3-50%	S3-50%	S3-50%	S3-50%
Limit switch max turns	21	21	21	21	21
Working temperature	-5°C/40°C	-5°C/40°C	-5°C/40°C	-5°C/40°C	-5°C/40°C
Noise (dB)	<70	<70	<70	<70	<70
Protection rate (IP)	54	54	54	54	54



1 Hand-chain override (ASOMC)

L800KT  
L1000KT  
L1300KT  
L1500KT  
L2000KT

## Basic diagrams & accessories

		L 800 KTC L1000 KTC	L 1300 KTC L 1500 KTC	L 2000 KTC
<b>1</b>	<b>ACCESSORIES</b>			
ASOMC	Hand-chain override	■	■	■
ASOM	Adjustable bracket	■	■	
ASOMK	Vertical bracket			■
<b>2</b>	<b>BRACKET BEARINGS</b>			
ALS4	Ø 40 mm	■		
ALS5	Ø 50 mm		■	
ALS65	Ø 65 mm			■
<b>3</b>	<b>SHAFTS</b>			
ALM4KS.SF	Ø 40 mm - motor side - 12x8x50 mm feather key - 40 mm circlip	■		
ALP4.SF	Ø 40 mm - bearing side - 12x8x50 mm feather key - 40 mm circlip	■		
ALM5KS.SF	Ø 50 mm - motor side - (2x) 14x9x50 mm feather key - 50 mm circlip		■	
ALP5.SF	Ø 50 mm - bearing side - 14x9x50 mm feather key - 50 mm circlip		■	
ALM65KS.SF	Ø 65 mm - motor side - 18x11x70 + 20x12x80 mm feather key - 65 mm circlip			■
ALP65.SF	Ø 65 mm - bearing side - 18x11x70 mm feather key - 65 mm circlip			■
<b>4</b>	<b>WASHERS*</b>			
AL4133.SF	for 133,0x4,0 tube - 40 mm shaft	■		
AL4159.SF	for 159,0x4,5 tube - 40 mm shaft	■		
AL4168.SF	for 168,3x4,5 tube - 40 mm shaft	■		
AL4178.SF	for 177,8x5,0 tube - 40 mm shaft	■		
AL4193.SF	for 193,7x5,4 tube - 40 mm shaft	■		
AL4219.SF	for 219,1x5,9 tube - 40 mm shaft	■		
AL4244.SF	for 244,5x6,3 tube - 40 mm shaft	■		
AL5193.SF	for 193,7x5,4 tube - 50 mm shaft		■	
AL5219.SF	for 219,1x5,9 tube - 50 mm shaft		■	
AL5244.SF	for 244,5x6,3 tube - 50 mm shaft		■	
AL5273.SF	for 244,5x6,3 tube - 50 mm shaft		■	
AL5298.SF	for 298,5x7,1 tube - 50 mm shaft		■	
AL5323.SF	for 323,9x8,0 tube - 50 mm shaft		■	
AL65219.SF	for 219,1x5,9 tube - 65 mm shaft			■
AL65244.SF	for 244,5x6,3 tube - 65 mm shaft			■
AL65273.SF	for 273,0x7,1 tube - 65 mm shaft			■
AL65298.SF	for 298,5x7,1 tube - 65 mm shaft			■
AL65323.SF	for 323,9x8,0 tube - 65 mm shaft			■

\*Further dimensions and diameters are available upon request.

## Selection table

		L 800 KTC	L 1000 KTC	L 1300 KTC	L 1500 KTC	L 2000 KTC
Ø Tube (mm)	Shutter's height (m)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)
193.7x5.4	3	638	798	1038	1197	1596
	5	601	751	977	1127	1502
	7	556	695	903	1042	1390
219.1x5.9	3	569	711	923	1067	1423
	5	536	669	870	1004	1339
	7	495	619	805	929	1238
244.5x6.3	3	515	644	837	966	1288
	5	485	606	788	909	1212
	7	448	561	729	841	1121
273x7.0	3	464	580	754	870	1160
	5	437	546	710	819	1092
	7	404	505	657	758	1010
323.9x7.1	3	397	496	644	743	991
	5	373	466	606	700	933
	7	345	431	561	647	863



The image features a solid orange background with a vertical dotted line running down the center. A semi-transparent, rounded rectangular box is centered in the lower half of the page, containing the text "Drives for sectional doors" in white. The background has a subtle, abstract pattern of overlapping shapes and gradients.

Drives for  
sectional doors



*SZX is a drive unit for sectional doors designed for a direct drive installation to the door shaft. The chain transmission is an option. SZX is available in 2 versions:*

- *for counterbalanced sectional doors*
- *for sectional doors (or rolling doors) with no springs*

SZX is made up of:

- A worm gear with hollow shaft
- An integrated safety brake (SZX180TP)
- An emergency manual operation
- Integrated limit switches
- An electric motor

The self-braking worm gear makes the SZX irreversible. No need for an electric brake.

## Additional details

---

### ► EUROPEAN DIRECTIVES

SZX is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### ► DUTY RATING

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

### ► OVERLOAD SAFETY FACTOR

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the SZX can reach these levels for short periods.

### ► OUTPUT SPEED

The maximum admissible speed depends on the construction and the door type. The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

### ► MANUAL OPERATION

In installations of SZX with hand crank or hand chain override, the door and the self braking gear construction remain inter-connected.

The door will never fall down if a spring breaks.

In installations of SZX with declutch device the door and the self-braking worm gear are disconnected during the manual operation. In this case the worm gear no longer sustains the door and a spring safety brake is required.

The counter-balancing system should be inspected at least once a year.

### ► HOLDING TORQUE

The SZX drive unit is capable of holding the weight of the door when the spring breaks preventing the door from falling down. The holding capability is the admissible load the worm gear construction can bear.



# Side motors for sectional doors.



Single-phase

SZX**50M**  
SZX**70M**

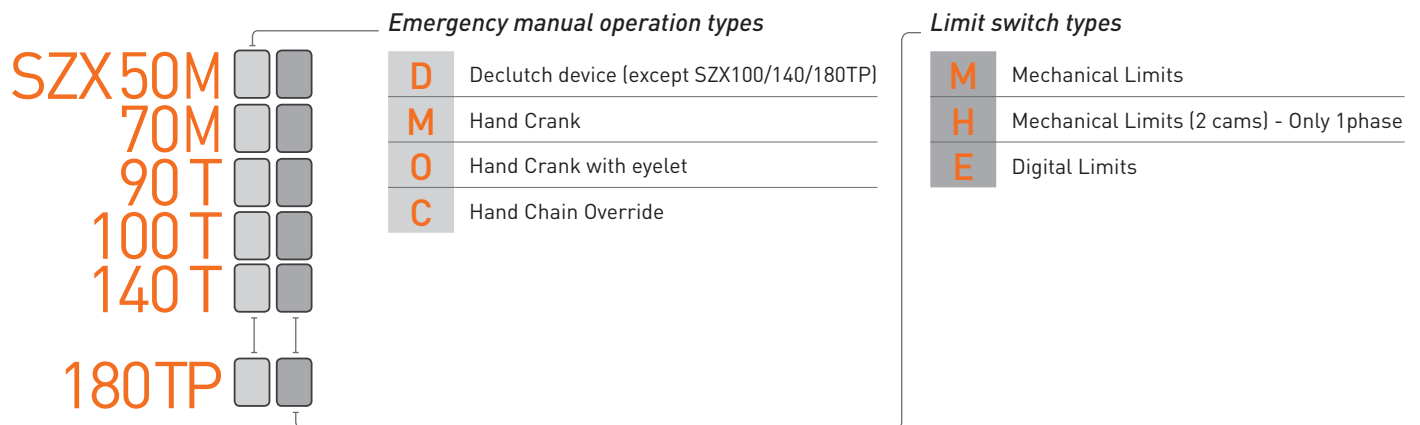
Three-phase

SZX**90T**  
SZX**100T**  
SZX**140T**

SZX**180TP**  
with integrated safety brake



## Range



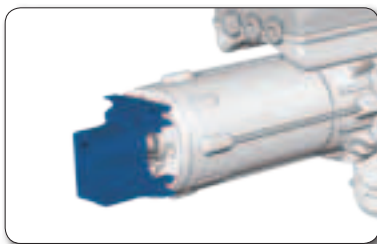
# SZX 50M / 70M / 90T / 100T / 140T / 180TP

## Override options

### Declutch device



### Hand crank

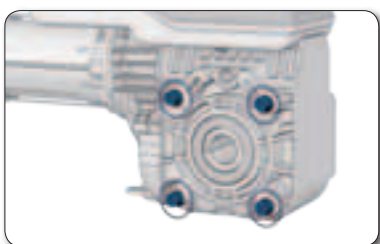


### Hand Crank with eyelet



## Installation

### Motor body with M8 fitting thread



### Bracket



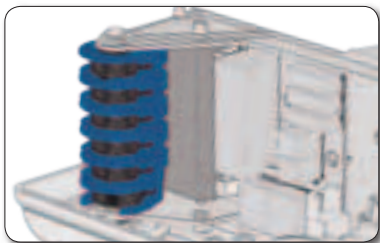
### Hand chain override



## Limit switch options

### Mechanical limits

2 Green cams for operating limits; 2 Red cams for safety limits; 2 Yellow cams for auxiliaries



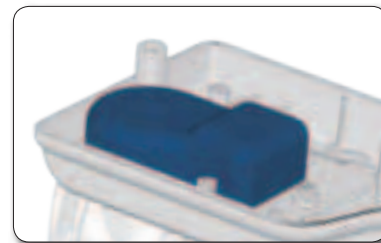
### Mechanical limits

2 Cams in 1ph motors (H version)



### Digital limits

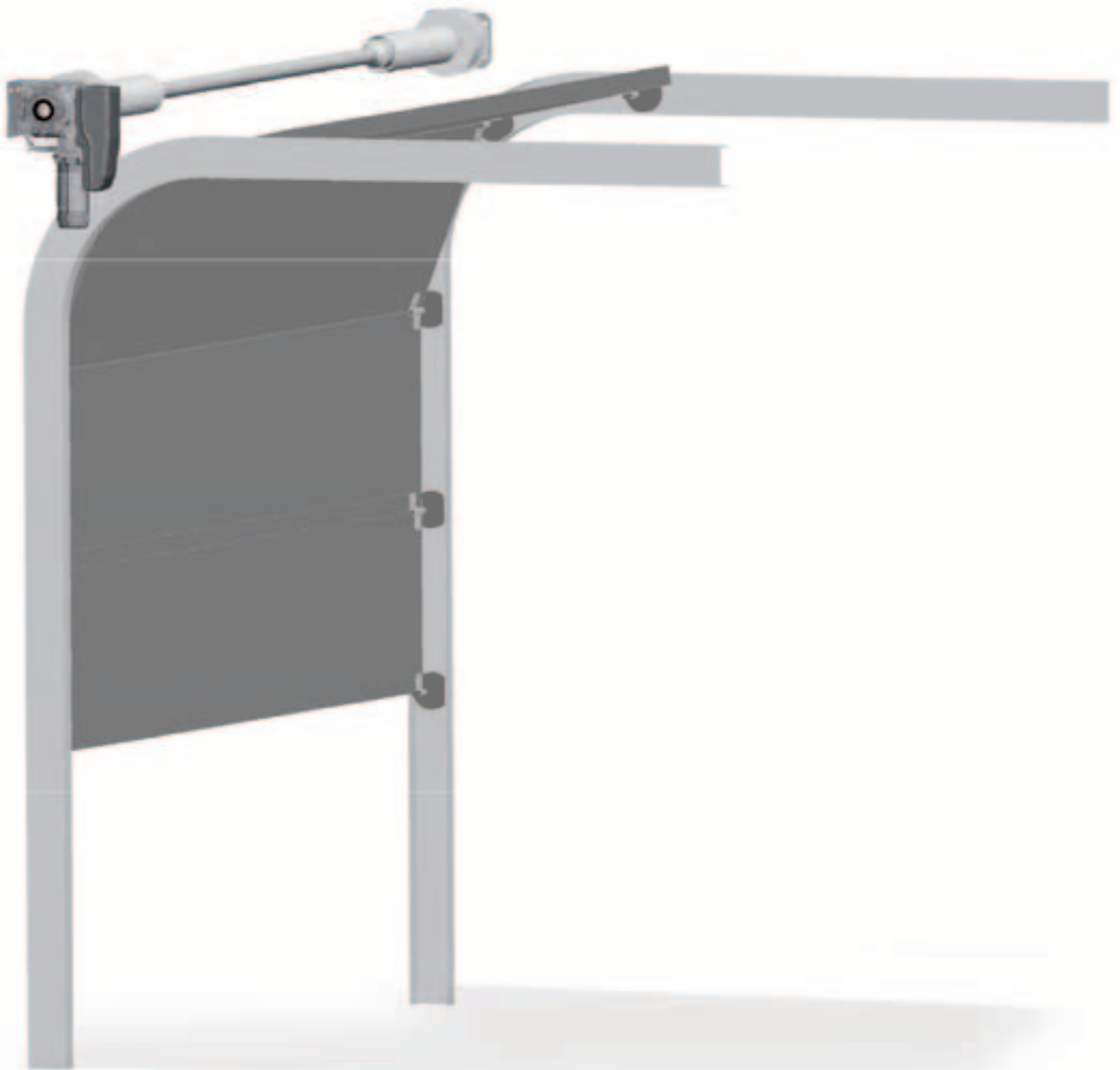
Absolute encoder.  
No readjustment after power failure



## Technical details

	(single-phase)			(three-phase)		
	SZX50M	SZX70M	SZX90T	SZX100T	SZX140T	SZX180TP
Torque (Nm)	50	70	90	100	140	180
Output Speed (Min <sup>-1</sup> )	21	21	21	30	18	18
Hollow shaft (mm)	25.4	25.4	25.4	25.4	25.4	25.4 (30)
Max. door weight (Kg)	250	350	400	450	650	-
Holding torque (Nm)	450	450	450	450	500	500
Power (kW)	0.43	0.50	0.80	0.48	0.87	0.87
Power Supply (V~)	230	230	400	400	400	400
Frequency (Hz)	50	50	50	50	50	50
Amperage (A)	1.90	2.20	2.20	1.70	2.30	2.30
Max Cycles Per Hour	12	12	20	20	20	20
Limit Switch range	18	18	18	18	18	18
Protection Rate (IP)	54	54	54	54	54	54

**Notes:** Allowed temperature range -10°C to +40°C // Operating sound pressure level SPL<70 dB (A) // The operating current in door drives can reach up to 4x the rated current for limited periods

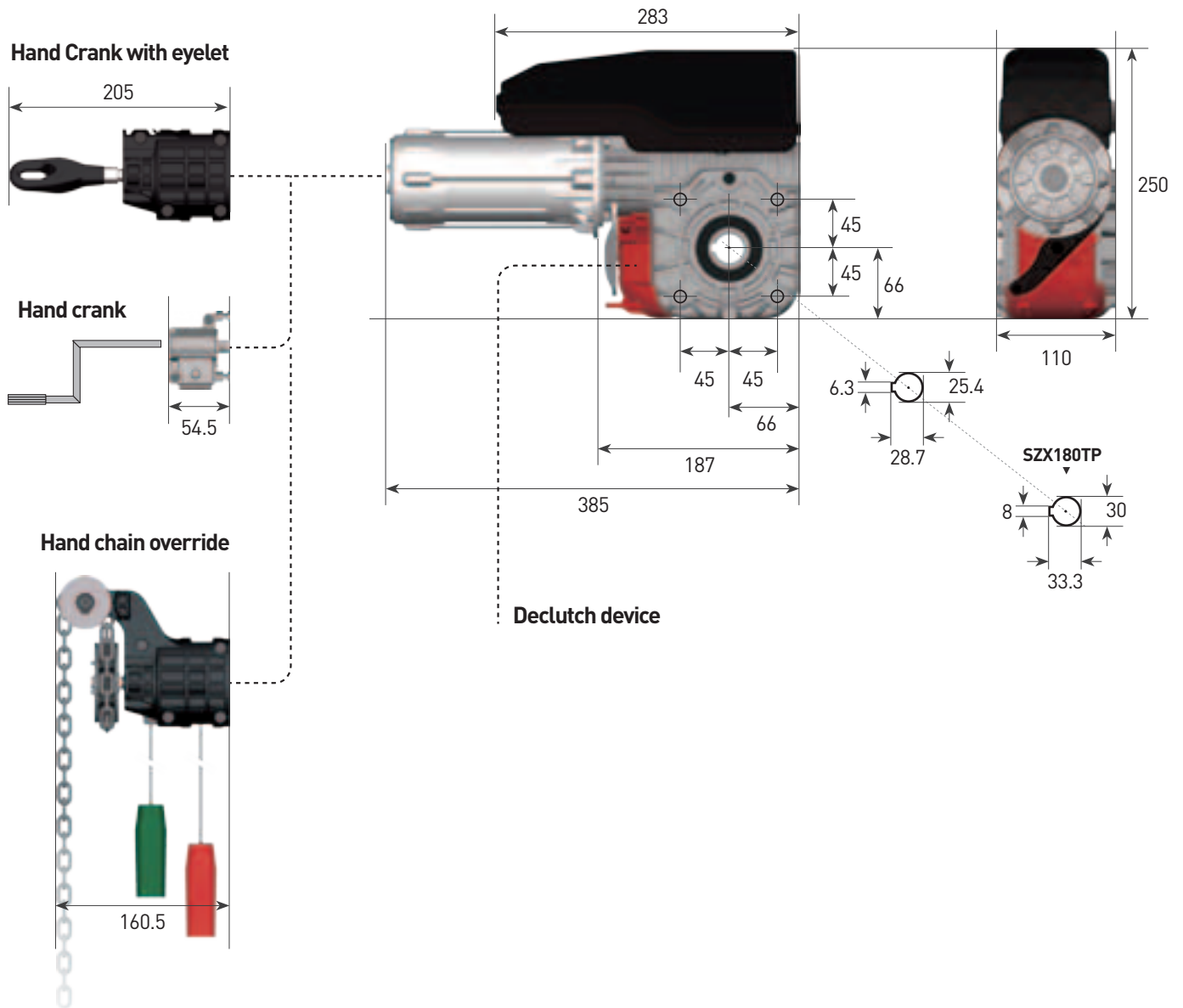


### ACCESSORIES

ANSZXM	Bracket
TC12S1	Chain transmission kit - 1/2" x 11.7 - ratio 1:1
TC12S15	Chain transmission kit - 1/2" x 11.7 - ratio 1:1.5
TC12S2	Chain transmission kit - 1/2" x 11.7 - ratio 1:2



# Dimensions (mm)



## Selection table (high torque SZX models)

### ► Sectional doors without springs

Cable drum	SZX140 T			SZX180 TP		
	N	Kg	V (cm/s)	N	Kg	V (cm/s)
160 mm	1577	161	15	2027	207	15
200 mm	1261	129	19	1622	165	19

### ► Shutters

Ø tube x thickness	SZX140 T			SZX180 TP		
	N	Kg	V (cm/s)	N	Kg	V (cm/s)
101,6x3.6 mm	1842	188	11	2368	241	11
108x3.6 mm	1750	178	12	2250	229	12
133x4.0 mm	1464	149	14	1882	192	14
159x4.5 mm	1251	128	17	1609	164	17

**N** = lifting capacity in Newton (includes friction)  
**Kg** = max weight of the door (includes friction)  
**V** = door speed (initial speed in roller shutters)





# Safety brakes

# SAFETY BRAKES



*The safety brake is a safety device for rolling shutters without springs performing two functions:*

- *A bearing support for the shutter's shaft*
- *A mechanical brake blocking the fall of the shutter if a sudden acceleration occurs.*

*It is made up of antioxiding materials, consists of a central body with a hollow shaft and is supported by a floating metal base preventing any tube eccentricity.*

*The GAPOSA safety brakes are equipped with a patented shock-absorber system and a microswitch for disconnecting the electrical supply to the motor when the brake locks.*

*In order to select the most suitable model for the best application, a good understanding of the safety brake data is essential.*

## Nominal torque

It is the key value to select the most appropriate safety brake according to the weight of the shutter and the diameter of the tube. Make sure that the torque of the operator is less than the nominal torque of the safety brake.

## Locking torque

It is the maximum stress which the safety brake is subjected to when it stops the rotation of the shaft.

## Working speed

It refers to the number of revolutions where the safety brake works as a simple support without functioning as a safety device. The speed of the shutter tube has to be within this value.

## Range

---

- **M1A/H** 80 Nm
- **M2A** 137 Nm
- **M3A** 258 Nm

- **M4A** 404 Nm
- **M7A** 708 Nm
- **M10A** 1000 Nm

- **M15A** 1551 Nm
- **M20A** 2200 Nm
- **M30A** 3109 Nm

# SAFETY BRAKES

## Safety brakes for garage doors, commercial shutters, industrial and commercial doors.

### M1A



The first Safety Brake with simmetrical surfaces for installation without conditions.



Simmetrical surfaces  
Bidirectional locking system

Nominal torque (Nm) 80

Locking torque (Nm) 573

Working speed (min<sup>-1</sup>) 22

Screw tightening torque (Nm) 4

Approval number TorFV 10/154

Weight (Kg) 0.85


### M1H



Safety brake featuring a **free rolling pre-set**. The brake is supplied in free rolling condition, meaning the locking component is disabled until a cord is pulled out thus activating it.

### M2A



- Locking system in both directions 
- Back frame of the integrated bracket to suit the traditional end cap profile
- O-ring: to protect the internal parts of the brake from weathering.

Nominal torque (Nm) 137

Locking torque (Nm) 503

Working speed (min<sup>-1</sup>) 20

Screw tightening torque (Nm) 4.0

Approval number TorFV 8/130

Weight (Kg) 1

### M2AS



Version with anti-oxidation deeper treatment and stainless steel locking ring for installation in hard climatic conditions.

### M3A

Nominal torque (Nm) 258

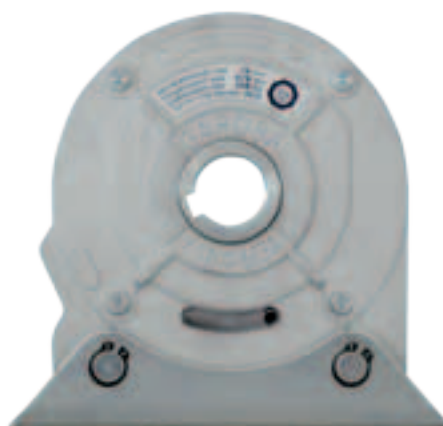
Locking torque (Nm) 978

Working speed (min<sup>-1</sup>) 16

Screw tightening torque (Nm) 5.5

Approval number TorFV 7/125

Weight (Kg) 2.1

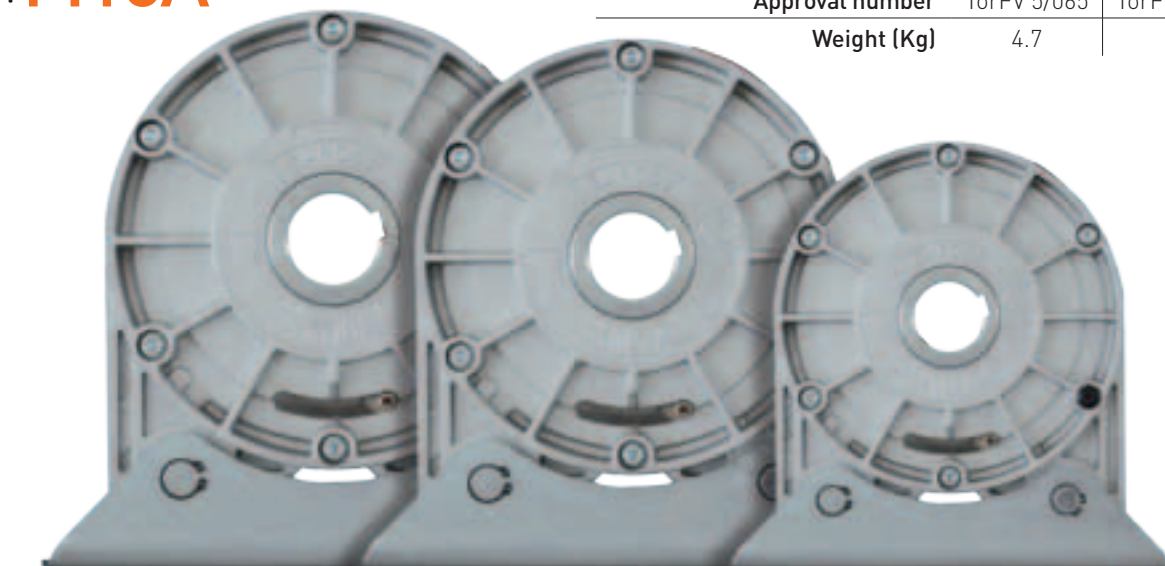




Safety brakes for *garage doors, commercial shutters, industrial and commercial doors.*

**M4A**  
**M7A**  
**M10A**

	M4A	M7A	M10A
Nominal torque (Nm)	404	708	1000
Locking torque (Nm)	1979	3299	3560
Working speed (min <sup>-1</sup> )	14	12	12
Screw tightening torque (Nm)	5	6	8
Approval number	TorFV 5/065	TorFV 5/066	TorFV 5/067
Weight (Kg)	4.7	10	12.5

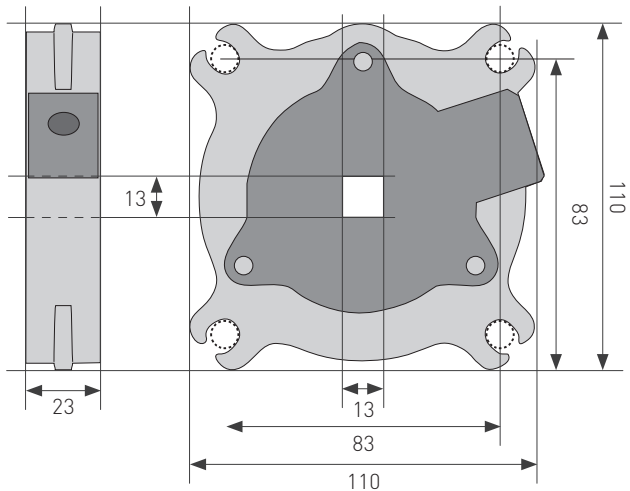


**M15A**  
**M20A**  
**M30A**

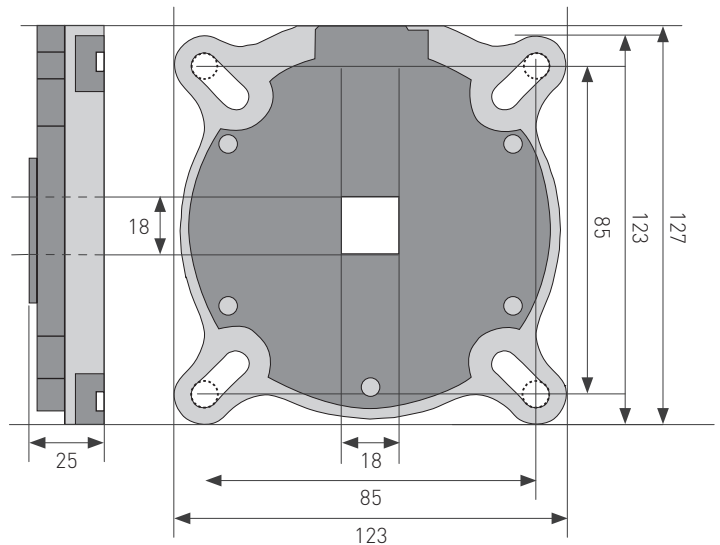
	M15A	M20A	M30A
Nominal torque (Nm)	1551	2200	3109
Locking torque (Nm)	8842	16588	-
Working speed (min <sup>-1</sup> )	18	12	12
Screw tightening torque (Nm)	12	26	30
Approval number	TorFV 7/126	TorFV 10/155	-
Weight (Kg)	19.5	20	45



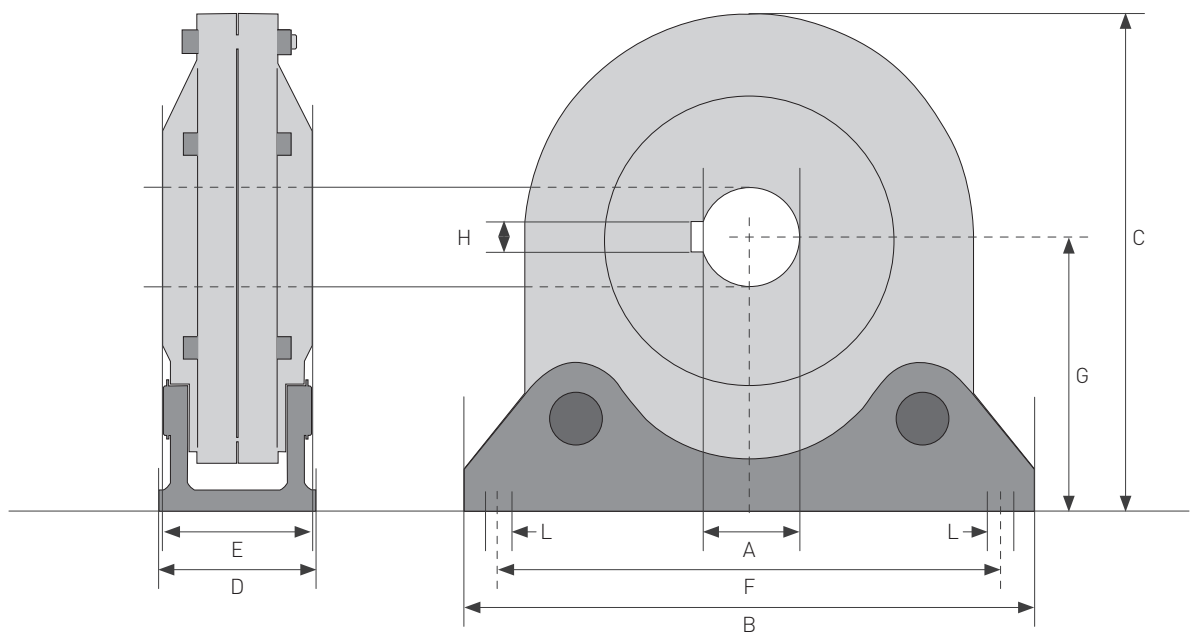
### M1A/M1H



### M2A



### M3A M4A M7A M10A M15A M20A M30A



Segment (mm)	M3A	M4A	M7A	M10A	M15A	M20A	M30A
A	25	30	40	40	50	65	70
B	165	216	268	280	320	345	415
C	158	202	255	260	265	290	348
D	33	56	56	71	71	71	104
E	30	50	55	57	58	63	105
F	145	186	240	240	290	315	365
G	91	122	151	156	140	153	191
H	8	8	12	12	14	18	20
L (Ø)	9	12	16	16	17	17	22
Fastening screws	2 x M8	2 x M10	2 x M14	2 x M14	2 x M16	2 x M16	2 x M20

## Adjustable caps

### Adjustable caps (CLIP) - M1A



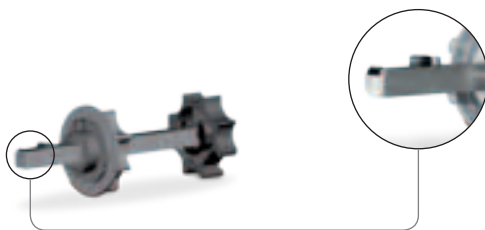
#### SQUARE SHAFT 13 mm - LENGTH 250 mm

AXCL135725	for 70 mm octagonal tube
AXCL137825	for 78 mm round tube
AXCL138925	for 89 mm Deprat tube

#### SQUARE SHAFT 13 mm - LENGTH 600 mm

AXCL138960	for 89 mm Deprat tube
------------	-----------------------

### Adjustable caps (CLIP) - M2A



#### SQUARE SHAFT 18 mm - LENGTH 250 mm

AXCL185725	for 70 mm octagonal tube
AXCL187825	for 78 mm round tube
AXCL187025	for 70 mm round tube
AXCL188925	for 89 mm Deprat tube
AXCL1810125	for 101.6x3.6 mm round tube
AXCL18101225	for 101.6x2.0 mm round tube

#### SQUARE SHAFT 18 mm - LENGTH 600 mm

AXCL188960	for 89 mm Deprat tube
------------	-----------------------

### Adjustable caps (STANDARD) - M1A



#### SQUARE SHAFT 13 mm - LENGTH 250 mm

AXC135725	for 70 mm octagonal tube
AXC13ZF8025	for 80 mm ZF round tube
AXC13589	for 89 mm Deprat tube
AXCR131012	for 101,6x3,6 mm round tube
AXCR1370	for 70 mm round tube
AXC130625	for 60 mm octagonal tube

### Adjustable caps (STANDARD) - M2A



#### SQUARE SHAFT 18 mm - LENGTH 250 mm

AXC5725	for 70mm octagonal tube
AXCZF6425	for ZF 64 mm tube - <b>Max motor torque allowed: 40Nm</b>
AXCZF8025	for 80 mm ZF round tube
AXCR7025	for 70 mm round tube
AXCD58925	for 89 mm Deprat tube
AXCR10125	for 101.6x3.6 mm round tube
AXCR101225	for 101.6x2.0 mm round tube

#### SQUARE SHAFT 18 mm - LENGTH 600 mm

AXCD58960	for 89 mm Deprat tube
-----------	-----------------------

### Adjustable caps (STANDARD) - M3A



#### SQUARE SHAFT 25 mm - LENGTH 300 mm

AXCR3101	for 101.6x3.6 mm round tube
AXCR31012	for 101.6x2.0 mm round tube
AXCR3133	for 133.6x2.5 mm round tube
AXCR31334	for 133.4x4.0 mm round tube
AXCR3159	for 159x4.5 mm round tube
AXCR3168	for 168x4.5 mm round tube
ACR316829	for 168x2.9 mm round tube



The following table helps you to select the right safety brake according to the weight and sizes of the shutter and the tube diameter.

### M3A

∅ TUBE x THICKNESS (mm) ▶	88.9x3.2			101.6x3.6			108x3.6			133.3x4			159x4.5			168x4.5			
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	
SHUTTER WIDTH (m) ▶	3	285	285	285	360	312	279	351	306	275	314	284	259	279	260	242	267	252	235
	5	168	165	165	245	245	245	279	279	275	314	283	259	278	260	241	266	251	235
	7	112	112	112	167	167	167	191	191	191	314	283	258	278	259	259	265	250	234

### M4A

∅ TUBE x THICKNESS (mm) ▶	133.3x4			159x4.5			168x4.5			177.8x5			193.7x5.4			219.1x5.9			
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	
SHUTTER WIDTH (m) ▶	3	493	425	375	434	387	348	412	373	338	392	359	327	360	336	309	312	300	280
	5	345	345	345	430	384	345	408	369	333	387	354	322	353	329	303	303	290	272
	7				389	380	342	386	364	330	382	349	318	347	323	297	293	281	263

### M7A

∅ TUBE x THICKNESS (mm) ▶	177.8x5			193.7x5.4			219.1x5.9			244.5x6.3			267x7.1			
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	
SHUTTER WIDTH (m) ▶	3	553	510	467	509	480	444	446	433	408	394	389	373	353	351	341
	5	548	506	464	505	475	470	439	426	402	384	380	364	340	339	329
	7	545	503	460	499	470	435	432	419	396	375	371	355	328	327	318

### M10A

∅ TUBE x THICKNESS (mm) ▶	193.7x5.4			219.1x5.9			244.5x6.3			267x7.1			298.5x7.1			323.9x8			
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	
SHUTTER WIDTH (m) ▶	3	823	759	692	721	686	637	632	616	581	564	557	533	486	484	472		427	421
	5	816	753	687	711	676	629	619	603	570	547	540	517	465	463	451		399	393
	7	809	746	681	701	667	619	606	590	557	529	522	500	443	441	430		370	365

### M15A

∅ TUBE x THICKNESS (mm) ▶	219.1x5.9			244.5x6.3			267x7.1			298.5x7.1			323.9x8			368x8			419x8.8		
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	
SHUTTER WIDTH (m) ▶	3	1160	1142	1095	1139	1033	1007	948	944	933	843	840	837	767	767	765	665	664	663	567	566
	5	1156	1138	1091	1033	1028	1002	941	937	926	834	831	828	757	756	754	650	649	648	546	545
	7	868	868	868	1028	1023	997	934	931	919		822	820	746	744	742	635		633	523	524

### M20A

∅ TUBE x THICKNESS (mm) ▶	244.5x6.3	267x7.1	298.5x7.1	323.9x8	355.6x8	368x8	406.4x8.8	419x8.8	457.2x10	508x11
	1615	1480	1320	1220	1110	1073	970	940	860	775

### M30A

∅ TUBE x THICKNESS (mm) ▶	244.5x6.3	267x7.1	298.5x7.1	323.9x8	355.6x8	368x8	406.4x8.8	419x8.8	457.2x10	508x11
	2300	2100	1880	1730	1575	1520	1382	1339	1227	1100



---

A large section of the page containing numerous horizontal dotted lines, intended for writing or drawing.



Controls  
and devices

- 128 Control units for single/three-phase motors
- 130 Control units for three-phase motors
- 132 Connection cables
- 133 Additional accessories
- 134 Control units for single-phase motors
- 138 Transmitters
- 140 Electronic safety devices
- 141 Accessories

# Electromechanical control unit for single/three-phase motors



## QC300 | QC301

### Features

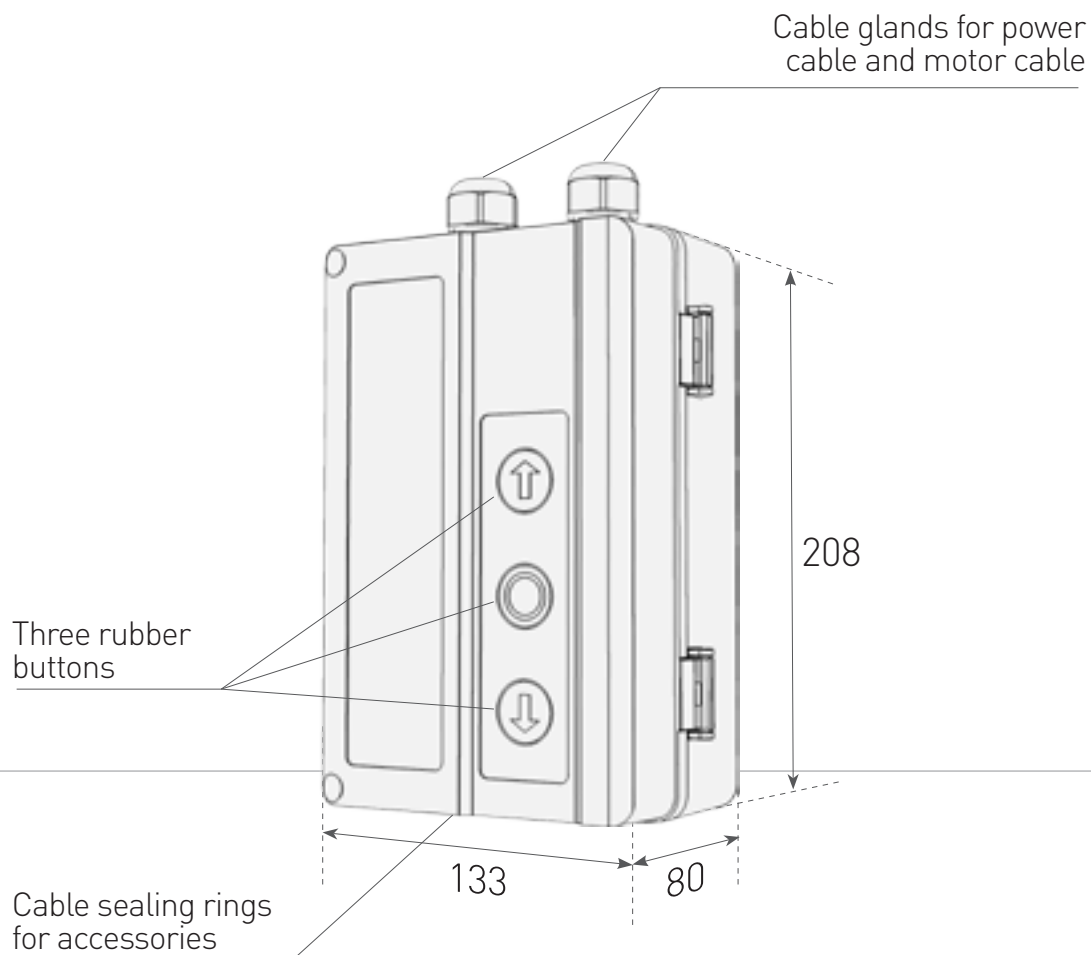
---

- 3phase control unit (QC300) / 1phase (QC301)
- More room while wiring
- Quick connections for power and limits cable
- Integrated buttons in the front cover for UP, STOP and DOWN control
- Inter-locked contactors for the best reliability
- Selectable safety input= optoelectric safety edge/nc contacts for safety beams
- Auto-check
- Selectable DOWN operating mode= dead man/momentary
- Automatic closing (selectable timing)
- Colors/sequences of led for visual display of the main functions/troubleshooting
- Parallel connection facility for grouping more QC300 in one push button
- IP rating: 54



**COMPACT, EASY  
AND PRACTICAL**

# Electromechanical control unit for single/three-phase motors



## Technical data

<b>Power supply</b>	400V~ (3Ph) - 50/60 Hz [QC300]	230V~ (1Ph) - 50 Hz [QC301]
<b>Power supply external accessories</b>	24V~ /max 70mA	
<b>Motor power</b>	max 2000 W	
<b>Protection fuse</b>	315 mA	
<b>Protection rate</b>	IP54	
<b>Working temperature</b>	-10°C /+60°C	
<b>Dimensions</b>	133 x 208 x 80 mm	



# Control units for **three-phase** motors

## QC3P

*Basic control unit with integrated membrane pushbutton*

QC3P is a control unit in an IP44 (IP65 upon request) ABS box for roller shutter and sectional door motors up to 2000 W.



## Features

- OPEN / CLOSE / STOP membrane buttons
- Inter-locked contactors
- Plug-in connection cables
- Available with optional ready-wired 16A CEE plug (it replaces the main switch according to EN12453)
- Operating modes:
  - Hold to CLOSE / OPEN
  - Hold to CLOSE / AUTOMATIC UP
- Additional connections for push-button and safety beams

## Technical data



<b>Power supply</b>	230/400V~ (3Ph) - 50/60 Hz
<b>Power supply external accessories</b>	24V~ /max 70mA
<b>Motor power</b>	max 2000 W
<b>Protection fuse</b>	315 mA
<b>Protection rate</b>	IP44
<b>Working temperature</b>	-10°C /+60°C
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	1000 g

# Control units for three-phase motors

## QC03+

*Multifunction electromechanical control unit*

QC03+ is a multifunction control unit in an IP44 ABS box which enables the remote control of three-phase rolling door and sectional door motors up to 2000W. It features 2 mini-inverters which assure the highest reliability on powerful motors.  
It allows the control of the different safety devices installed.



## Features

- Operating logic: momentary, dead-man (only for closing)
- Remote control
- Safety beams (2 inputs)
- Safety edges (test feature)
- Pause timer and automatic closing
- Flashing light/courtesy light
- Adjustable working time, from 3 seconds to 4 minutes

## Technical data

<b>Power supply</b>	400 V~ - 50/60 Hz ( $\pm 10\%$ )
<b>Frequency</b>	433.92 MHz
<b>Power supply external accessories</b>	24 V~ / Max 250 mA
<b>Number of radio codes</b>	63
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 2000 W
<b>Working temperature</b>	-10°C / +60°C
<b>Working time</b>	default = 30 sec
<b>Dimensions</b>	190 x 225 x 88 mm
<b>Weight</b>	2450 g

# Connection cables side motors- control units



## Limit switch cable

FLSI905	(1.5 m)
FLSI905.45	(4.5 m)
FLSI905.60	(6 m)
FLSI905.90	(9 m)



## Power supply cable

FLSI415	(1.5 m)
FLSI415.45	(4.5 m)
FLSI415.60	(6 m)
FLSI415.90	(9 m)



## Power/Limit switch cable

FLSI4G6	(1.5 m)
FLSI4G6.50	(5 m)
FLSI4G6.60	(6 m)



## Power supply cable with CE plug

FLSI5ST	(1.5 m)
FLSI5ST.50	(5 m)
FLSI5ST.60	(6 m)

# Additional accessories

---



---

## Extra chain

CAT416	8 m	(ring)
CAT416.70	14 m	(ring)
CAT416.50M	50 m	(reel)

---



---

## Set for release cord

For SZX		
10SBLRV	(4 m)	
10SBLRV70	(7 m)	

For SIDONE		
10SBLRVRC	(4 m)	
10SBLRV70RC	(7 m)	

---

# Control units for **single-phase** motors

## QCO / QCOP

*Multifunction control unit with radio receiver*

QCO is a multifunction control unit in an IP54 (IP65 upon request) ABS box, which enables the remote control of rolling door motors up to 800 W. It allows the control of the different safety devices installed. It is available with an integrated membrane pushbutton under the code QCOP.



## Features

- Operating protocol: momentary, maintained
- Remote control
- Integrated membrane pushbutton (QCOP)
- Safety beams (active also for opening)
- Safety edges (resistive type with test feature)
- Pause timer and automatic closing
- Flashing light/courtesy light
- Adjustable working time, from 3 seconds to 4 minutes

## Technical data

<b>Power supply</b>	230V~ - 50 Hz (±10%)
<b>Frequency</b>	433.92 MHz
<b>Power supply external accessories</b>	24 V~/Max 140 mA
<b>Number of radio codes</b>	63
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 800 W
<b>Working temperature</b>	-10°C /+60°C
<b>Working time</b>	default = 30 sec
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	340 g



# Control units for **single-phase** motors

## QC1P

*Multifunction control unit with radio receiver*

QC1P is the multifunction control unit able to monitor the optoelectronic safety edge.



## Features

- Operating protocol: momentary, maintained
- Remote control
- Integrated membrane pushbutton
- Optoelectronic safety edge
- Safety beams (active also for opening)
- Pause timer and automatic closing
- Flashing light/courtesy light
- Adjustable working time, from 3 seconds to 4 minutes

## Technical data



<b>Power supply</b>	230V~ - 50 Hz (±10%)
<b>Frequency</b>	433.92 MHz
<b>Power supply external accessories</b>	24 V~ /Max 140 mA
<b>Number of radio codes</b>	63
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 800 W
<b>Working temperature</b>	-10°C /+60°C
<b>Working time</b>	default = 30 sec
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	340 g



# Control units for **single-phase** motors

## QC00

*Control unit with radio receiver*

QC00 is a basic control unit enabling the remote control of rolling door motors up to 500 W.



## Features

- Operating logic: momentary, dead-man (only for closing)
- Remote control
- Safety beams
- Pause timer and automatic closing
- Adjustable working time, from 3 seconds to 4 minutes

## Technical data

<b>Power supply</b>	230V~ - 50 Hz (±10%)
<b>Frequency</b>	433.92 MHz
<b>Power supply external accessories</b>	24 V~/Max 140 mA
<b>Number of radio codes</b>	63
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 500 W
<b>Working temperature</b>	-10°C /+60°C
<b>Working time</b>	30 sec
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	300 g

# Control units for **single-phase** motors

## QC000

*Standard control unit*

QC000 is a simple dead man control unit with an IP44 (IP65 upon request) ABS box, suitable for rolling door motors up to 500 W.



## Features

- Dead man control
- Stop control
- Safety beams
- Flashing light

## Technical data

<b>Power supply</b>	230V~ - 50 Hz (±10%)
<b>Power supply external accessories</b>	24 V~ /Max 250 mA
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 500 W
<b>Working temperature</b>	-10°C /+60°C
<b>Protection fuse</b>	6.3 A
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	300 g

# Transmitters for garage, commercial and industrial doors

## QCTE

4 channels hand-held transmitter



## QCTIR

3 channels hand-held transmitter  
(1 channel in UP/STOP/DOWN fashion)



Black



White

## Technical details

	QCTE	QCTIR
Channels	4	3 (1)
Frequency	433,92 MHz	
Power supply	3V mod. CR2430	
Battery life	2 year	
Radiated power	0,150 mW	
Protection rate	IP40	
Coverage (int/ext)	20 m / 200 m	
Encoding	RC Gaposa	
Working temperature	-5°C / +40°C	
Dimensions (mm)	35 x 53 x 12	33 x 68 x 13
Weight	20 g	20 g



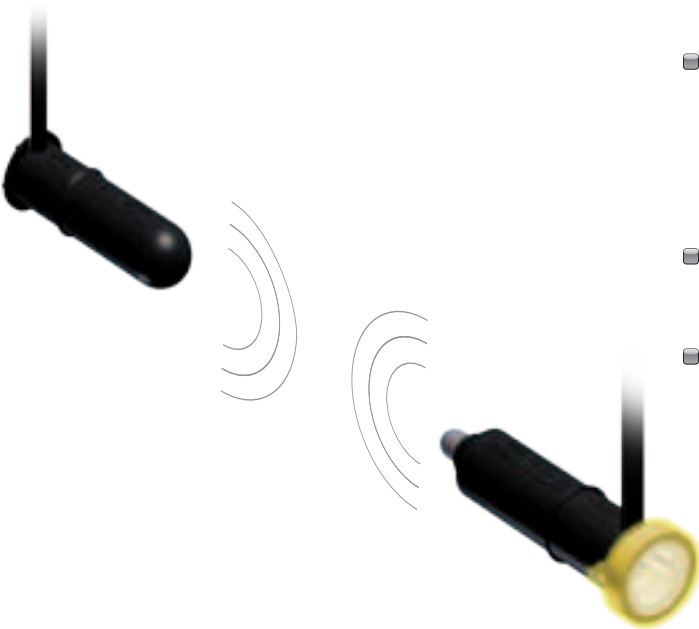
---

A large section of the page containing numerous horizontal dotted lines, intended for writing or drawing.

# Electronic safety devices

## QCSE

Optoelectronic safety beams



A set of Ø12 mm optical beams, spiral cable, and junction box for the full protection against impacts of the door.

- The beams are suitable for all common bottom rubber profiles and assure full functionality even in large door widths. They are less sensitive to wind load and bending and are resistant against voltage reversal and short-circuits
- The cable is tested and guarantee for 100.000 cycles under hard conditions
- The junction box (IP 65) has a very flat design to suit any door slat and a strong strain relief for the spiral cable.



<b>Range</b>	12 m
<b>Operating voltage</b>	9/16V resistant against voltage reversal
<b>Current consumption</b>	typ. 3.8mA
<b>Output</b>	transistor output max. load 20mA short-circuit proofed
<b>Output frequency</b>	automatic recognition typ. 900Hz
<b>Output signal</b>	rectangular signal low level 0-0.5V / high level 2.5-4V
<b>Wire</b>	3x0.14 mm <sup>2</sup> , Ø 3.4mm PUR, halogen free, acid-and oil-resistant
<b>Operating temp.</b>	-25°... +75°C
<b>Dimensions (mm)</b>	Ø12 x 39

## QCF4

Infra-red safety beams

- Self-aligning
- 15 m range



## QCF5

- Self-aligning
- 30 m range



75 x 65 x 30 mm

<b>Power supply</b>	12 - 24V AC/DC
<b>Relay contact</b>	1A MAX 30V DC
<b>Working temperature</b>	-10°C / +60°C
<b>Absorption</b>	2W
<b>Protection Rate</b>	IP54
<b>Dimensions</b>	56x82x24 mm

# Accessories for garage, commercial and industrial doors

## QCRS1

Receiver



QCRS1 is a self-learning receiver, able to memorise up to 31 codes in a simple and quick way. It features a strong water-tight box.

- Transmitters' radio self-learning
- Sequential transmitters programming
- Proper functionality even in interfered areas.

<b>Power supply</b>	24 V DC/AC
<b>Frequency</b>	433.92 MHz
<b>Relay</b>	1A / 30 VDC
<b>Irradiation on antenna</b>	-60 dBm
<b>Sensitivity</b>	102 dBm
<b>Consumption (standby)</b>	30 mA
<b>Protection rate</b>	IP55
<b>Working temperature</b>	-20°C / +60°C
<b>Dimensions</b>	50 x 133 x 25 mm
<b>Weight</b>	65 g

## QCL4I

Flashing light

It works in intermittent fashion at 230V  
IP44 protection rating  
Supplied with wall bracket

85 x 115 x 85 mm



Available in two colors:  
orange and yellow



## ANT433

Aerial

Useful to extend the range of reception of any control unit with radio receiver

- 433/434 MHz
- Cable RG58 4,5 m





# Key selectors and pushbuttons for garages, commercial and industrial doors

## ACS1

Surface-mounted casing with key cover and UP-0-DOWN switch.



85x80x25 mm

## Ko ACSI

Recessed key switch, European cylinder (DIN 18252). Nylon casing 15mm thin.



75x90x15 mm

## ACSE

Surface mounted key switch, European cylinder (DIN 18252). Aluminium casing 50mm thick.



75x90x50 mm

## ACP4

Up-stop-down switch for industrial use.



70x140x60 mm

## Twisty ACPG

"Twisty" rotary switch for surface-mounted installations.



70x70x30 mm

## Blindoor

Aluminium security box with key. Compact design to contain the TWISTY rotary switch and the declutch release of the SPLIT E. It can be surface mounted or installed in the wall.

On demand it is available in the version with antipicking key.



## ACS12

**ACS12S**  
with antipicking key

167x111x35 mm



---

A series of horizontal dotted lines spanning the width of the page, intended for writing.

# General terms of sale

---

1. **PRICES** - Prices are subject to variation without notice. Should our costs increase, the agreed prices may be varied at any time even throughout the supplying stage. Prices are for goods delivered ex-works.
2. **DELIVERY DATES** - Despatch dates are guideline and not binding. No compensation of any kind will be paid for any direct or indirect damage due to delayed deliveries, or total or partial interruption of the supply of goods.
3. **SHIPMENT & TRANSPORT** - The goods are always shipped at the purchaser's risk, even if they are sold CIF. If no specific agreement is reached, they will be shipped by the means considered the most appropriate and no responsibility will be accepted for any delays. The purchaser must verify quantities and perfect state of the goods at their arrival.  
Any complaint for missing or damaged goods must be notified right upon delivery to the transport agency. No returns or complaints will be accepted after eight days from receipt of the goods by the purchaser.
4. **PAYMENT** - Goods will be paid (even in partial deliveries) as specified in the invoice at our address. The purchaser cannot postpone payment beyond the expiry date for any reason. Any charges for possible outstanding payments are at the buyer's expense as well as the interest on arrears that we calculate in case of delayed payments.
5. **WARRANTY** - Duration: On residential motorisations, GAPOSA grants a total warranty of 5 years upon the invoicing date. On industrial and commercial motorisations and on all controls and devices, GAPOSA grants a total warranty of 2 years upon the invoicing date.  
By warranty we mean the replacement or repair, free of charge, of detective equipment which we also consider as such, as faulty design, material or workmanship. Equipments that are repaired or replaced during the warranty period are subject to the same conditions. All costs met for shipping the items under warranty are of the purchaser's charge.
6. **EXCEPTIONS TO THE WARRANTY** - The warranty does not cover:
  - those products damaged because of a wrong installation or as a consequence of an improper use;
  - those products damaged by an electrical connection not in compliance with the diagrams provided with the products or with the rules in force or products damaged as a consequence of a breakdown or defect of the electric mains;
  - the damages that occur when products are used in a way different from the one indicated by the manufacturer;
  - the consequences of natural catastrophes, reasons of "force majeure" or fortuitous events;
  - those defects due to the use of electric and control accessories of other manufactures (such as, control boards, electric accessories and any other article that may be not compatible with GAPOSA equipments);
  - the expenses for repairing and replacing the damaged products after being installed on systems that work badly because of an improper installation;
  - the expenses met for the disassembly and reinstallation of the products;
  - the transport charges for the items to be repaired.
7. **VARIANTS** - Any waivers of these terms of sale indicated above which are agreed between the parties will be strictly limited to the agreements reached and will never imply variations of the remaining conditions, which will continue to be unchanged and confirmed, where no specific reference is made.
8. **LEGAL JURISDICTION** - The only law court with jurisdiction over any dispute shall be the law court of Fermo.
9. **PATENT PROTECTION** - Some technical solutions of the drives and safety brake are covered by international patents.



---

A series of horizontal dotted lines for writing, spanning the width of the page.

---

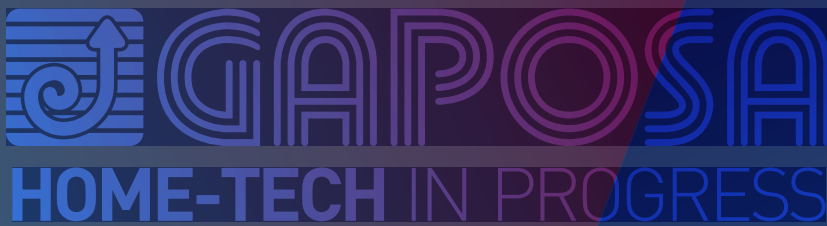


---

A large section of the page containing numerous horizontal dotted lines, intended for writing or drawing.







## **GAPOSA** srl

via Ete, 90 - 63900 Fermo - Italy  
T. +39.0734.22071 F. +39.0734.226389  
www.gaposa.com info@gaposa.com

## **GAPOSA INC.**

3920 Providence Road  
Newtown Square PA 19073-USA

## **GAPOSA FRANCE sarl**

2, rue Augustin Fresnel - 69680 Chassieu - France  
T. +33 (0)4 72 79 74 30 F. +33 (0)4 37 25 98 55  
france@gaposa.com

## **KAISER NIENHAUS Komfort & Technik GmbH**

Münsterstraße 30b - 46397 Bocholt - Deutschland  
T. + 49(0)2871/246506 F. + 49(0)2871/2465070  
www.kaiser-nienhaus.de info@kaiser-nienhaus.de

## **GAPOSA ESPAÑA 99 sl**

Pol. Ind. Els Mollons - C/ Cullerers, 27  
46970 Alaquàs (Valencia) - España  
T. +34.961501380 F. +34.961519298  
espana@gaposa.com gaposa@ctv.es

## **METALLPRESS MP GmbH**

Lappacher Weg 23  
D-91315 Höchstädt a. d. Aisch - Deutschland  
T. 0049 (0)9193 1525 • F. 0049 (0)9193 2848  
www.metallpress.de info@metallpress.de

## **GAPOSA S.E. EUROPE LTD**

Kv. Serdika bl. 15 - vñB - et.2 - ap.20  
Sofia 1379 - Bulgaria  
T. +30 6981 547 300  
sakis@gaposa.com

www.  
gaposa  
.com

