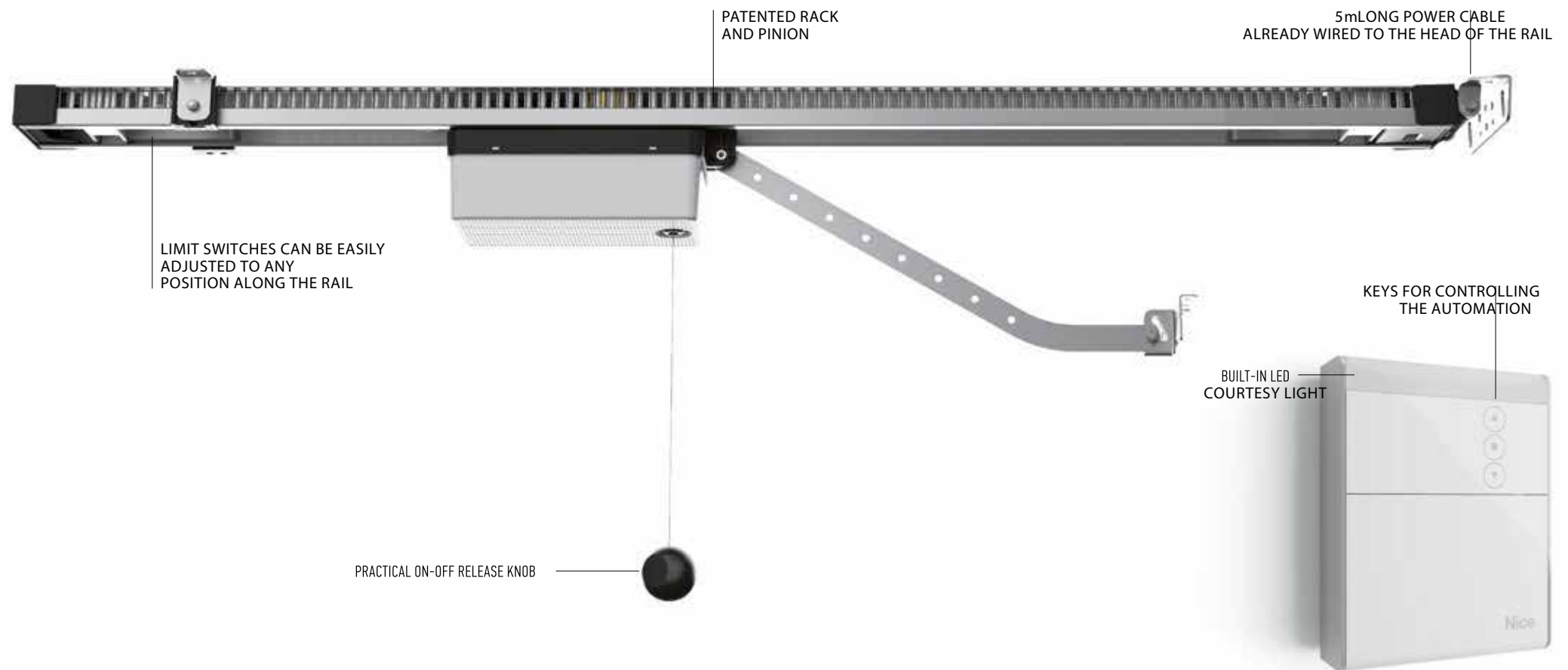


THE PRACTICAL AND SMART  
SOLUTION FOR GARAGE DOORS.



 **the protectors** SINCE 1984®  
BUILDING PRODUCTS COMPANY

THE RANGE OF MOTORS AND CONTROL UNITS  
WITH A FUNCTIONAL DESIGN.  
IDEAL FOR RESIDENTIAL APPLICATIONS.



THE NICE TRAVELLING MOTOR  
WITH SEPARATE CONTROL UNIT

CONTROL UNIT LUMINOUS,  
VERSATILE AND EASY TO  
PROGRAM

THE UTMOST CARE TO DETAILS,  
WITH PRACTICAL AND  
FUNCTIONAL SOLUTIONS



## QUICK TO INSTALL

The motor moves along a rail containing a rack, without chains or other noisy mechanisms to install.

## SAFE

24V power supply

Obstacle detection function that immediately reverses movement of the motor if the garage door should come into contact with an obstacle.

ON/OFF release system that allows the motor to be released or blocked in any position along the rail, all in just one simple move.

## HANDY

Separate control unit with built-in LED courtesy light and three practical keys to control the automation, always close at hand. More practical and convenient for programming and maintenance.

## SMART

Simple and fast basic programming, using the Quick Setup procedure: pressing the opening pushbutton, the control unit independently detects all connected devices and the positions of the motor limit switches.

Simplified advanced programming, using O-View

## SOLUTIONS IN KIT, COMPLETE AND READY TO USE

Motor, control unit, and one two-channel transmitter are available in the kit.

Three models: 550 N motor (SPY550KCE), 650 N motor with Nice BlueBus (SPY650KCE) and 800 N motor with Nice BlueBus (SPY800KCE).

The rails are available in different sizes: single 3.2 m long rail, or supplied in two 1.6 m sections plus a 0.8 m extension, to simplify all logistics and installation requirements.

# SPY 550

OPERA 24V

**For sectional doors up to 9 m<sup>2</sup> and up-and-over doors (including canopy doors) up to 10.5 m<sup>2</sup>.**

24 Vdc irreversible electromechanical gear motor for residential use, **transmission with rack on the rail.**

To be combined with SPYRAIL321, SPYRAIL162 and SPYRAIL081 rails.

**Functional and stylish:** the motor is the only component that moves on the rail, there are no chains or other noisy mechanisms. Ideal for any architectural context.

## Handy

Separate control unit: more practical and convenient for programming and maintenance.  
Built-in LED courtesy light. Three practical keys to control the automation.

## Quick to install

Modular rail with assembly accessories. Limit switches easy to position along the rail with no need to stand and work on the ceiling. No chains or other noisy mechanisms to install.

## Easy to program

Simple and fast basic programming, using the Quick Setup procedure. Simplified advanced programming, using 0-View.

**ON/OFF release system:** pulling the release knob once releases the motor; pulling it a second time blocks the motor again, in any position along the rail.

**Inexpensive to run and environmentally-friendly:** when connected to the mains in standby mode, the control unit consumes 1.5 W.

**Safe:** obstacle detection, motor power monitoring during travel, diagnostic messages via flashing light and courtesy light.

Adjustable acceleration and deceleration at the start and end of each manoeuvre.

Ready for installation of the latest generation 8.2 kOhm resistive sensitive edges.

## Optimised logistics

For practical management and transport, the rails are available in different sizes: single 3.2 m long rail, or supplied in two 1.6 m sections plus a 0.8 m extension.

CODE	DESCRIPTION
<b>SPY550KCE</b>	KIT FOR THE AUTOMATION OF SECTIONAL AND UP-AND-OVER DOORS, 550 N, WITH SPYBOX CONTROL UNIT AND 1 FLO2RE TRANSMITTER. RAILS NOT INCLUDED

## RAIL FOR SPY:

CODE	DESCRIPTION
<b>SPYRAIL321</b>	1 X 3.2 m RAIL WITH ASSEMBLY ACCESSORIES
<b>SPYRAIL162</b>	2 X 1.6 m RAILS WITH ASSEMBLY ACCESSORIES
<b>SPYRAIL081</b>	0.8 m EXTENSION WITH ASSEMBLY ACCESSORIES (TO ADD TO THE OTHER RAILS SO AS TO REACH A LENGTH OF 4 m)

## TECHNICAL SPECIFICATIONS

CODE	SPY550KCE
<b>ELECTRICAL DATA</b>	
POWER SUPPLY (Vac 50/60 Hz)	230 ± 10%
CURRENT DRAW (A)	1.2
MAXIMUM POWER (W)	200
POWER IN STANDBY (W)	1.5
<b>PERFORMANCE DATA</b>	
MAXIMUM SPEED (M/S)	0.15
MAXIMUM FORCE (N)	550
NOMINAL FORCE (N)	180
WORKING CYCLE (CYCLES/HOUR)	20
WORKING CYCLE (CYCLES/DAY)	200
<b>DIMENSIONAL AND GENERAL DATA</b>	
INGRESS PROTECTION (IP)	IP40
OPERATING TEMP. (°C MIN/MAX)	-20 ÷ +55
PACK DIMENSIONS (mm)	380x380x125
WEIGHT (kg)	3.2

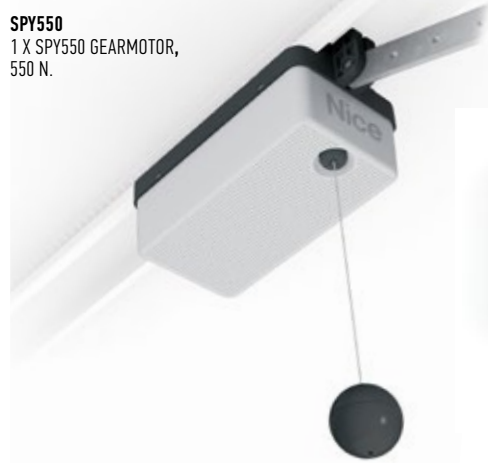
## RAIL TECHNICAL SPECIFICATIONS

CODE	SPYRAIL321	SPYRAIL162	SPYRAIL081*
TYPE	3.2 m (one section)	3.2 m (2 pcs length 1,6 m)	0.8 m (rails to reach length 4 m)
INSTALLED RAIL LENGTH (mm)	3.270		4.075
USEFUL TRAVEL (mm)	2.710		3.515
WEIGHT (kg)	7.5	8.35	3.3
PACK DIMENSIONS (mm)	3.230x110x50	1.760x110x50	960x110x50
ACCESSORIES PACK DIMENSIONS (mm)	400x400x90		

\*To be used in combination with SPYRAIL321 e SPYRAIL162 rails

## THE KIT CONTAINS

**SPY550**  
1 X SPY550 GEARMOTOR,  
550 N.



**SPYBOX**  
1 CONTROL UNIT WITH  
BUILT-IN LED COURTESY LIGHT  
AND RECEIVER.



**FLO2RE**  
1 X 433.92 MHz  
2 CHANNEL TRANSMITTER.



# SPY 650/800

SOLEMYO OPERA BLUEBUS 24V

For sectional doors up to 10.5 m<sup>2</sup> (SPY650) and 12.5 m<sup>2</sup> (SPY800), up-and-over doors, including canopy doors, up to 11.5 m<sup>2</sup> (SPY650) and 14 m<sup>2</sup> (SPY800).

24 Vdc irreversible electromechanical gear motor for residential use, transmission with rack on the rail.

To be combined with SPYRAIL321, SPYRAIL162 and SPYRAIL081 rails.

**Functional and stylish:** the motor is the only component that moves on the rail, there are no chains or other noisy mechanisms. Ideal for any architectural context.

## Handy

Separate control unit: more practical and convenient for programming and maintenance. Built-in LED courtesy light. Three practical keys to control the automation.

## Quick to install

Modular rail with assembly accessories. Limit switches easy to position along the rail with no need to stand and work on the ceiling. No chains or other noisy mechanisms to install.

**Simple to install with the BlueBus system,** requiring just two wires for connection between the control unit and the pairs of photocells and other accessories featuring BlueBus technology.

## Easy to program

Simple and fast basic programming, using the Quick Setup procedure. Simplified advanced programming, using 0-View.

**ON/OFF release system:** pulling the release knob once releases the motor; pulling it a second time blocks the motor again, in any position along the rail.

## Inexpensive to run and environmentally-friendly:

when connected to the mains in standby mode, the control unit consumes just 0.5 W. When connected to the battery or the Solemyo kit, power consumption in standby mode is reduced to 0.1 W.

**No blackouts:** operation is guaranteed even when mains power is not available, thanks to the optional PS324 backup battery.

**Safe:** obstacle detection, motor power monitoring during travel, diagnostic messages via flashing light and courtesy light.

Adjustable acceleration and deceleration at the start and end of each manoeuvre.

Ready for installation of the latest generation 8.2 kOhm resistive sensitive edges.

## Optimised logistics

For practical management and transport, the rails are available in different sizes: single 3.2 m long rail, or supplied in two 1.6 m sections plus a 0.8 m extension.

## THE KIT CONTAINS

**SPY650KCE:**  
1 SPY650 GEARMOTOR, 650 N.

**SPY800KCE:**  
1 SPY800 GEARMOTOR, 800 N.

**SPYBOXB**  
1 CONTROL UNIT WITH BUILT-IN LED COURTESY LIGHT, RECEIVER OR OXI CONNECTION, AND BACKUP BATTERIES.

**FLO2RE**  
1 X 433.92 MHz 2 CHANNEL TRANSMITTER.



CODE	DESCRIPTION
<b>SPY650KCE</b>	KIT FOR THE AUTOMATION OF SECTIONAL AND UP-AND-OVER DOORS, 650 N, WITH SPYBOXB CONTROL UNIT AND 1 FLO2RE TRANSMITTER. RAILS NOT INCLUDED
<b>SPY800KCE</b>	KIT FOR THE AUTOMATION OF SECTIONAL AND UP-AND-OVER DOORS, 800 N, WITH SPYBOXB CONTROL UNIT AND 1 FLO2RE TRANSMITTER. RAILS NOT INCLUDED

## RAIL FOR SPY:

CODE	DESCRIPTION
<b>SPYRAIL321</b>	1 X 3.2 m RAIL WITH ASSEMBLY ACCESSORIES
<b>SPYRAIL162</b>	2 X 1.6 m RAILS WITH ASSEMBLY ACCESSORIES
<b>SPYRAIL081</b>	0.8 m EXTENSION WITH ASSEMBLY ACCESSORIES (TO ADD TO THE OTHER RAILS SO AS TO REACH A LENGTH OF 4 m)

## TECHNICAL SPECIFICATIONS

CODE	SPY650KCE	SPY800KCE
<b>ELECTRICAL DATA</b>		
POWER SUPPLY (Vac 50/60 Hz)	230 ± 10%	
CURRENT DRAW (A)	1.4	1.6
MAXIMUM POWER (W)	250	300
POWER IN STANDBY (W)	0.5	0.5
<b>PERFORMANCE DATA</b>		
MAXIMUM SPEED (M/S)	0.15	0.14
MAXIMUM FORCE (N)	650	800
NOMINAL FORCE (N)	200	250
WORKING CYCLE (CYCLES/HOUR)	30	30
WORKING CYCLE (CYCLES/DAY)	300	300
<b>DIMENSIONAL AND GENERAL DATA</b>		
INGRESS PROTECTION (IP)	IP40	
OPERATING TEMP. (°C MIN/MAX)	-20 + +55	
PACK DIMENSIONS (mm)	380x380x125	
WEIGHT (kg)	3.2	3.4

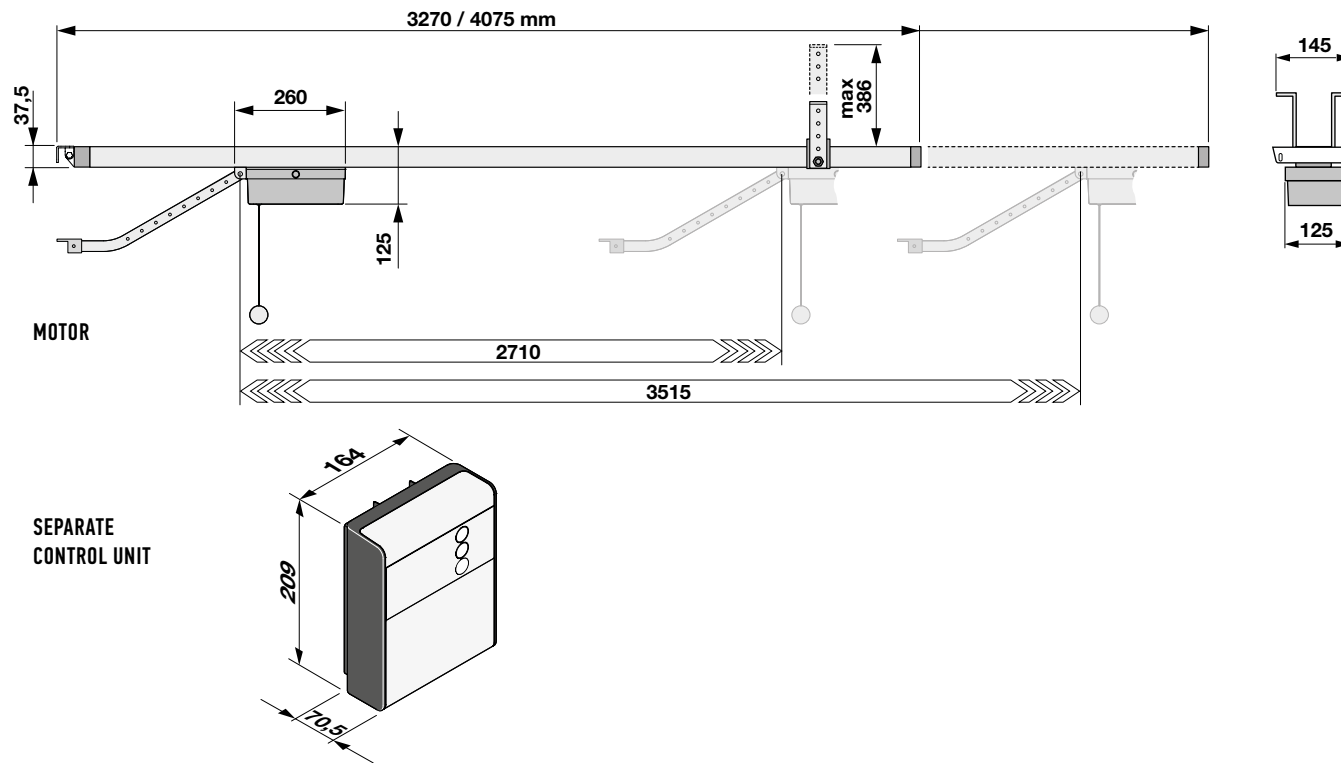
## RAIL TECHNICAL SPECIFICATIONS

CODE	SPYRAIL321	SPYRAIL162	SPYRAIL081*
TYPE	3.2 m (one section)	3.2 m (2 pcs length 1.6 m)	0.8 m (rails to reach length 4 m)
INSTALLED RAIL LENGTH (mm)	3.270		4.075
USEFUL TRAVEL (mm)	2.710		3.515
WEIGHT (kg)	7.5	8.35	3.3
PACK DIMENSIONS (mm)	3.230x110x50	1.760x110x50	960x110x50
ACCESSORIES PACK DIMENSIONS (mm)	400x400x90		

\*To be used in combination with SPYRAIL321 e SPYRAIL162 rails



## DIMENSIONS

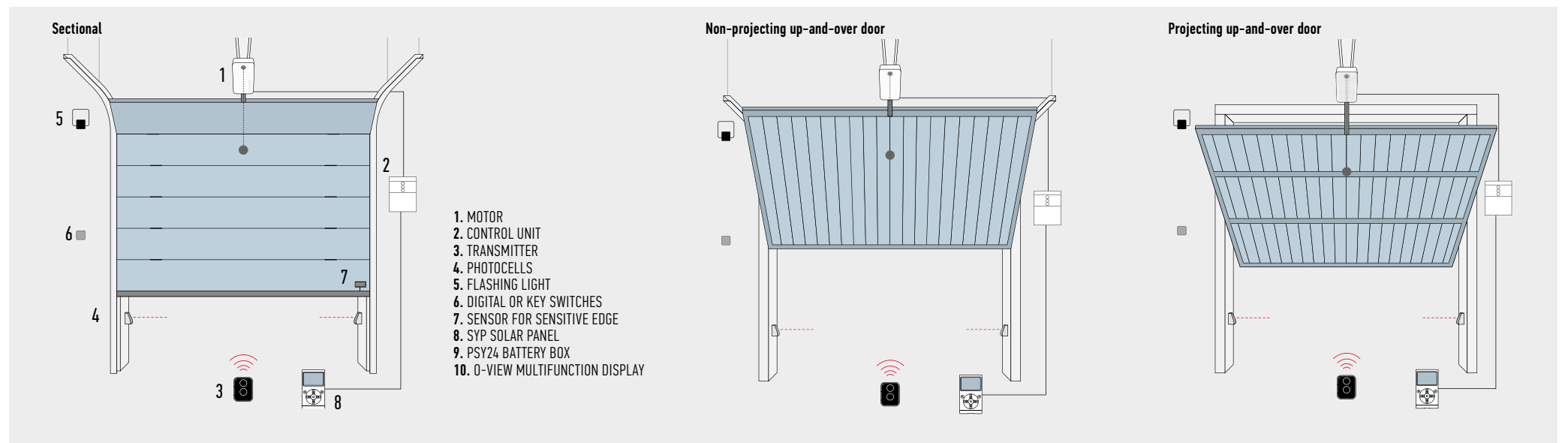


## UTILISATION LIMITS

Using the maximum travel

	NON-PROJECTING UP-AND-OVER DOOR (WITH SPA5)		PROJECTING UP-AND-OVER DOOR (WITH SPA5) ACCESSORY OR WITH SPRINGS (WITHOUT SPA5)		SECTIONAL	
	H	W	H	W		
SPY550 with 3.2 m rail	2.3 m	3.5 m	2.8 m	3.5 m	2.5 m	3.6 m
SPY550 with 4 m rail	3.1 m	2.6 m	3.5 m	2.9 m	3.3 m	2.8 m
SPY650 with 3.2 m rail	2.3 m	4 m	2.8 m	4 m	2.5 m	4.2 m
SPY650 with 4 m rail	3.1 m	3 m	3.5 m	3.3 m	3.3 m	3.2 m
SPY800 with 3.2 m rail	2.3 m	5 m	2.8 m	5 m	2.5 m	5 m
SPY800 with 4 m rail	3.1 m	3.7 m	3.5 m	4 m	3.3 m	3.8 m

## INSTALLATION DIAGRAM



## COMPATIBILITY TABLE WITH CONTROL SYSTEMS AND ACCESSORIES

CODE	RECEIVER			TRANSMITTER				PHOTOCELLS								FLASHING LIGHT						
	Built-in*	SMXI	OXI	ERA INTI	ERA ONE**	ERA FLOR	NICEWAY	TTX4	EPS	EPM	EPL	EPS8	EPMB	EPLB	F210	FT210	F210B	FT210B	EL	EL24	ELB	WLT
SPYBOX	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
SPYBOXB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●

\*Radio receiver incompatible with Opera system

\*\*ERA ONE remote controls, when used with SPYBOX, work as ERA FLOR models.

## ACCESSORIES FOR SPY550



**SPA5**  
OSCILLATING ARM SLIDING  
ON BEARINGS WITH OPTIMISED  
STRUCTURE FOR PROJECTING  
UP-AND-OVER DOORS.

PCS./PACK 1



**SPA6**  
LARGE 585 mm LONG  
CONNECTING ARM.

PCS./PACK 1



**KI1**  
OUTSIDE RELEASE  
KIT WITH METAL PULL-CORD  
AND LOCK AND KEY.

PCS./PACK 1



**SPA2**  
KIT FOR UNLOCKING FROM  
THE OUTSIDE WITH CABLE.

PCS./PACK 1



**IBT4N**  
INTERFACE FOR  
CONNECTING THE 0-VIEW  
PROGRAMMING UNIT.

PCS./PACK 1



**TS**  
SIGNBOARD.

PCS./PACK 1

## ACCESSORIES FOR SPY650 AND SPY800



**PS324**  
24 V BATTERY WITH  
BUILT-IN BATTERY  
CHARGER.

PCS./PACK 1



**SPA5**  
OSCILLATING ARM SLIDING  
ON BEARINGS WITH OPTIMISED  
STRUCTURE FOR PROJECTING  
UP-AND-OVER DOORS.

PCS./PACK 1



**SPA6**  
LARGE 585 mm LONG  
CONNECTING ARM.

PCS./PACK 1



**KI1**  
OUTSIDE RELEASE  
KIT WITH METAL PULL-CORD  
AND LOCK AND KEY.

PCS./PACK 1



**SPA2**  
KIT FOR UNLOCKING FROM  
THE OUTSIDE WITH CABLE.

PCS./PACK 1



**IBT4N**  
INTERFACE FOR  
CONNECTING THE 0-VIEW  
PROGRAMMING UNIT.

PCS./PACK 1



**TS**  
SIGNBOARD.

PCS./PACK 1

# TECHNOLOGY AS SIMPLE AS A GESTURE



## EASY SOLUTIONS FOR HOME AND BUILDING.

SYSTEMS FOR THE AUTOMATION AND CONTROL OF GATES, GARAGE DOORS, BLINDS, SHUTTERS AND ALARM SYSTEMS, WITH INTEGRATED MANAGEMENT USING SMART AND INTUITIVE INTERFACES: PRACTICAL, FUNCTIONAL AND ELEGANT SOLUTIONS TO HELP YOU ENJOY YOUR LIVING SPACES TO THE FULL.

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SHAHRA-E-FAISAL,  
KARACHI - 75400  
PHONE: 021 3453 5377-9  
CELL: 0300 8542220

### DEFENCE SHOWROOM

2C, MAIN 26TH STREET CORNER OF  
KHY-E-TANZEEM, DHA, PHASE-V,  
KARACHI  
PHONE: 021 3537 4864  
CELL: 0307 7774780

### LAHORE SHOWROOM

MALL 94, 2ND FLOOR,  
94-D-1, (NEXT TO MALL 1),  
MAIN BOULEVARD  
GULBERG - III, LAHORE  
CELL: 0307 7774513

### ISLAMABAD SHOWROOM

5, MADINA ARCADE (OPP. DES PARDES)  
E-11 /3 MARKAZ , ISLAMABAD  
PHONE: 051 285 3966  
CELL: 0303 7774248

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