

PRODUCT TECHNICAL DATASHEET

SMARTY



SWING



SLIDING



CANTILEVER



SMARTY

SMARTY4/HS

Electromechanical actuator HIGH SPEED BRUSHLESS, low voltage, super intensive use, irreversible, ideal for swing gates up to 400kg and 4m wide with mechanical stopper in opening and closing.

SMARTY7

Electromechanical BRUSHLESS motor, low voltage, super intensive use, ideal for swing gates up to 700kg and 7m wide with built in digital controller.



Brushless



Intensive Use



High Speed



Digital Encoder

	SMARTY4/HS	SMARTY7
Max Gate Weight	400 kg	700 kg
Maximum Gate Length	4m per leaf	7m per leaf
Power Line Supply	230V AC - 50Hz	230V AC - 50Hz
Motor Power Supply	36V	36V
Power Rating	200W	200W
Duty Cycle	100% Intensive Use	100% Intensive Use
Thrust	600 - 4500N	600 - 7000N
Operating Temperature	-20+55°C	-20+55°C
Protection Level	IP44	IP44
Reductor Type	Irreversible	Irreversible
Manoeuvre Speed	2.1 cm/s	1.6 cm/s
Opening Time at 90°	15-25 s	35-50 s
Stroke	370mm	520mm
Limit Switch	Mechanical stopper in opening and closing	Mechanical stopper in opening and closing
Digital Controllers	230V: EDGE1/BOX	230V: EDGE1/BOX
Encoder	Digital encoder SENSORLESS 48 PPR	Digital encoder SENSORLESS 48 PPR
Battery Recovery	Optional 2 external battery 12V, 7AH	Optional 2 external battery 12V, 7AH



SWING



SLIDING

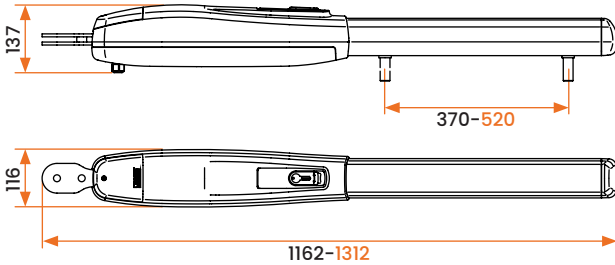


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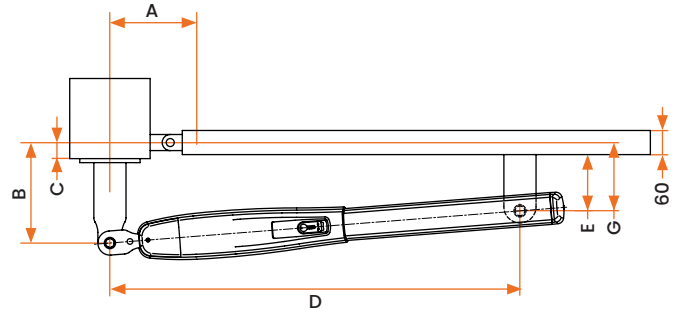


SMARTY

Dimensions



Preparations for Standard Installation



SMARTY4/HS - SMARTY 7

Note: All measurements in the drawings are in millimetres

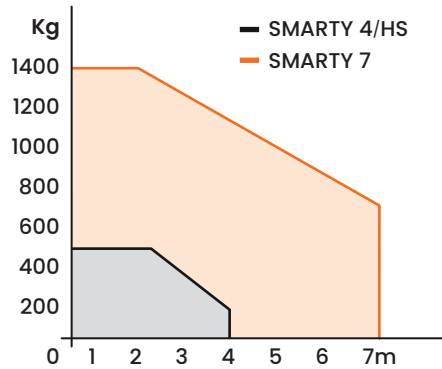
SMARTY 4/HS

(Max Run = 370 mm)

SMARTY 7

(Max Run = 520 mm)

Operating Limits

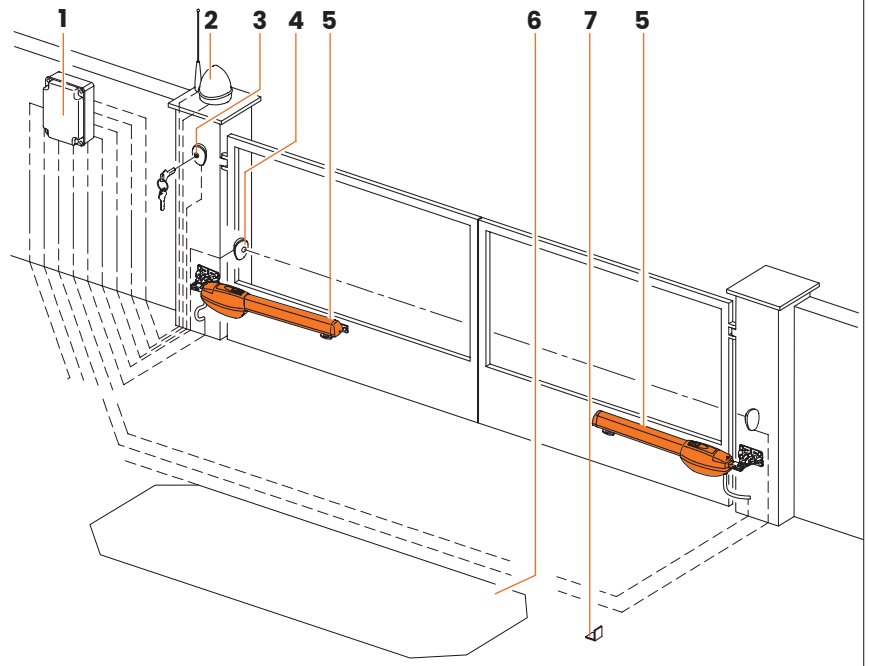


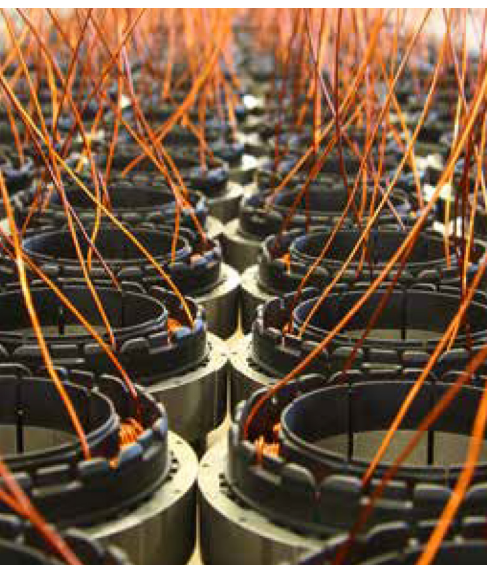
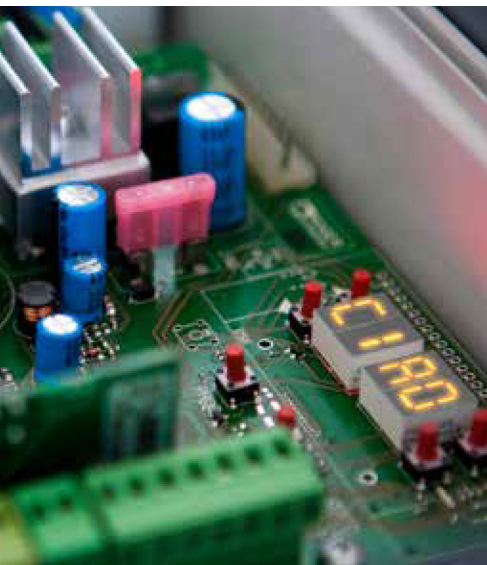
A	B	C (max.)	D (max.)	E	G	α°
150	150	120	1030	100	130	97°
150	170	120	1030	100	130	96°
150	190	120	1030	100	130	95°
150	200	120	1030	100	130	95°
150	220	120	1030	100	130	90°
170	150	120	1030	100	130	103°
170	170	120	1030	100	130	102°
170	200	120	1030	100	130	90°
185	185	120	1030	100	130	90°
200	160	120	1030	100	130	92°

A	B	C (max.)	D (max.)	E	G	α°
200	200	200	1180	140	170	98°
200	230	200	1180	140	170	97°
200	260	200	1180	140	170	96°
200	280	200	1180	140	170	95°
200	300	200	1180	140	170	93°
220	220	200	1180	140	170	102°
220	250	200	1180	140	170	100°
220	280	200	1180	140	170	93°
250	200	200	1180	140	170	106°
250	250	200	1180	140	170	94°

Typical Swing Gate Set Up

1. Control Box
2. Antenna/Fashing Light
3. Keypad/Exit Button
4. Safety Beam
5. Motor
6. Loop Detector/Probe
7. Gate Stop





- ◆ **Brushless Digital Motor**
Features a compact design with neodymium iron-baron magnets, available in 24V & 36V AC versions, operating at ambient temperature with low consumption.
- ◆ **Speed & Acceleration With Maximum Safety**
Controls motor torque precisely for smooth acceleration and deceleration, ensuring safety.
- ◆ **Super Intensive Use**
Operates at low voltage with a 100% duty cycle, maintaining low energy consumption.
- ◆ **External Transformer For Heavy Gates**
Low voltage options reduce installation costs where high voltage is unavailable.
- ◆ **Extremely Low Energy Consumption**
Consumes about 1/3 the power of other brands for the same gate weight and speed.
- ◆ **Amazingly Quiet**
Precision gearing and smooth torque control result in very quiet operation, ideal for residential applications.
- ◆ **Mechanical Stops**
Worm drive with mechanical stops.
- ◆ **Standby Batteries**
Emergency battery backup system available, with optional 'fail open' setting during power outages.
- ◆ **Multifunctional Digital Display**
4-quadrant display with 6 function keys for parameter adjustment, error checking, and self-learning.
- ◆ **High Precision Engineering**
Features premium materials and double shielded ball bearings for precise alignment and durability.
- ◆ **Reinforced Aluminum Body**
Aluminum housing reinforced with titanium and epoxy-painted for weather protection.
- ◆ **Sustainability**
Roger Technology is a green customer-centric company dedicated to creating sustainable products through environmentally responsible production processes, innovative technologies, and a culture that prioritizes the health, safety, and development of its workers and customers.