



BE20 SERIES

Today's digital intelligence moves your gate.

Primo Florian: Founding partner - Engineering and design, Dino Florian: Founding President - Development and design, Renato Florian: Founding partner - Assembly and quality

PEOPLE AND IDEAS

From the very beginning roger technology has evolved and grown because it's people believe that any bright idea can lead to great change in the future. Our people are passionate and innovative in our approach to every challenge, allways pushing the boundaries to develop extraordinary products.

PRODUCT EXPERIENCE

In our language we translate the word "experience" as passion. It is this passion that drives us in the development of revolutionary new products that serve the real needs of our customers.

We understand that our customers want a product

We understand that our customers want a product designed around the way that they work.





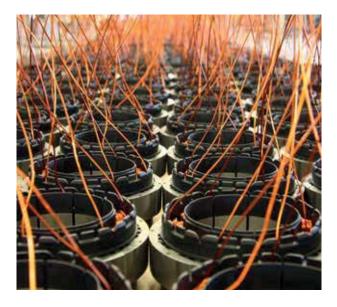


Production technology

At Roger Technology all internal manufacturing is carried out on optimised production lines making use of very advanced technology. We have invested heavily in robotics and automated all product manufacturing phases. This ensures that all components and semi-finished products are highly reliable. and are fully complient with our exceptionally high quality standards.









A digital brushless motor with permanent magnetic field, digital electronics for the complete management of the automation system control. Designed for super intensive use with the added benefit of a super low power consumption.

THIS IS BRUSHLESS

Digital Brushless Motor

Revolutionary and innovative digital Brushless motor with permanent magnetic field, 24V/36V three-phase sinusoidal power supply with native encoder that allows super-intensive use of the automation system with extremely low power consumption, not only providing 100% compliance with all control and safety requisites of the automation system.

New Generation of Electronics

The new control unit with 24V/36V DC digital Brushless controller. Without traditional relays and due to the revolutionary MOSFET quadrant system and its control technology entirely based on a DSP (Digital Signal Processor) microcontroller, it represents a new generation of electronic cards created to safely handle all movement phases of the automation system.

Engineering Passion

All the mechanical components and gears are manufactured in steel, cast iron and bronze; the automation system casings are made from titanium-reinforced die-cast aluminium. All the gears are inspected and assembled on high-quality bearings and inserted on precise seats machined to provide absolute precision between the axes.



3-PHASE DIGITAL BRUSHLESS MOTOR

A very powerful motor with substantial torque. The motor is compact and neat due to the special concentrated coil windings, it is powered by a three phase sinusoidal system.



DIGITAL AND VECTORIAL AUTOMATION CONTROLLER

The BRUSHLESS digital controller, which operates at low voltage 24V/36V DC, allows 100% control of the automation system in digital mode. Due to its operation entirely based on a DSP microcontroller the travel and all the movements of your automation system can therefore be programmed and customised easily, precisely and elegantly.



SPEED, ACCELERATION AND DECELERATION WITH EXTREME ELEGANCE

The automation system with brushless digital technology creates perfect and elegant movements. With a constant force and torque at every point and with the option of varying the speed on deceleration and acceleration the system can be managed with maximum safety.



EXTREMELY LOW ENERGY CONSUMPTION

A motor that can operate at low voltage in super-intensive use and which can operate in environments with extremely demanding weather conditions while maintaining very low energy consumption and absorption levels. We can move a 600 kg sliding gate and use less than 30W of power.



NO PROBLEM IN THE EVENT OF POWER FAILURE

With the help of internal or external batteries and the associated battery charging card, your automation system continues to operate for a considerable time even during prolonged power cuts, ensuring many more operations than traditional technologies.



MOTOR AT AMBIENT TEMPERATURE

The BRUSHLESS motor was brought into being with the main goal of being a motor for super-intensive use with an efficiency of 99%. Regardless of how many operations the engine performs in a day, it always remains cold or at most reaches the outside ambient temperature.

COMPLETELY BRUSHLESS

The revolutionary digital motor which is 12 ways different





One great impact is the silence or the near absence of noise, generated by the BRUSHLESS motor during all its movements.



MOTOR FOR SUPER-INTENSIVE USE

We wanted to surprise you with a fundamental fact: The super intensive use of the automation system with the motor which remains permanently cold even after many days of use.



IMPACT, OBSTACLE DETECTION AND REVERSAL IN TOTAL SAFETY

Thanks to digital technology we are able to detect an obstacle and reverse the motor instantly, by simply specifying the torque of the motor, the sensitivity, the time and the travel of the reversal. And in complete compliance with all safety requisites.



ONBOARD NATIVE DIGITAL ENCODER

The BRUSHLESS motor has a highly advanced native digital encoder that controls management of automation systems in a safe, precise and extremely elegant manner.



SIMPLE INSTALLATION WITH A SINGLE 3-WIRE CABLE

And the BRUSHLESS motor can be installed by simply connecting it using a single 3-wire cable! What could be easier? This will provide fully digital management of your automation system thanks to sensorless or sensored technology depending on the type of automation system.



ADVANCED PRECISION ENGINEERING TO OBTAIN OPTIMAL MOTOR PERFORMANCE

We have created a mechanism that gives you the opportunity to get the maximum performance out of the motor. A product which combines the quality of the internal production processes, the mechanical processing and the use of high quality ferrous and non-ferrous materials.

A technology that offers maximum performance but consumes less power than other motors



WHY BRUSHLESS...?

Digital, smart, powerful, elegant, robust and all-Italian.



Sturdy, durable fork and nut screw

The fork and nut screw rotating in the worm gear are manufactured from superior quality materials. In particular, the bronze nut screw features a completely threaded inner surface and is press-fit onto the steel fork to ensure a precise mechanical connection.



High precision engineering

Reducer gears made with only with high quality materials such as aluminium, steel, cast iron and bronze; gears assembled with superior quality double shielded ball bearings to ensure absolute precision between axes.



Eccentric release lever with barrel lock and key

The eccentric release lever is operated with a practical and durable barrel lock and key. The release system uses an extremely robust and resilient eccentric lever and a double lever lock mechanism, for manually releasing the automated system when needed simply and easily.



Simple installation with a single 3-wire cable

The 3 input terminal board makes connection quick, simple and easy, with the motor connected to the digital controller with a single 3-wire cable.



Adjustable aluminium travel limits

The BE20 swing gate motor is factory-fitted with two aluminium travel limits reinforced with titanium in the gate open and gate closed positions. Both travel limits are adjustable and feature a completely threaded inner surface to form a solid mechanical connection with the worm gear during contact with the fork in both directions of movement of the motor. The travel limits are easily adjustable even with the motor already installed, by simply removing the aluminium cover.



Removable protection brushes

The extruded aluminium casing includes two specific guides for brushes preventing accidental contact and protecting and cleaning the worm gear and the relative fork. The brushes are removable and can even be replaced with the motor installed.



Elegant, reinforced aluminium casing

The casing covering the worm gear of the motor is manufactured from anodised aluminium, and features multiple reinforcement points along its entire length. The casing is fastened to the motor housing with through bolts crossing the full width of the casing.



Micro-controller with DSP SENSORLESS technology

Simply connecting the BRUSHLESS motor to the controller with a single 3-wire cable ensures completely digital control of your automated gate system with SENSORLESS motor power control technology.



Adjustable, screw-mounted fastener brackets

The BE20 brushless swing gate motor is equipped with screw-mounted adjustable fastener brackets, making the motor even quicker and easier to install on the gate. The brackets are oversized and manufactured from hot-galvanised carbon steel, for superior durability and to keep the motor fastened securely in place. The rear bracket offers a choice of 5 predetermined adjustment positions.



Multifunction digital display

4-quadrant digital display with 6 function keys that allow you to go through the various parameters, change their values, check error messages and input statuses and perform all the self-learning phases.



Brushless digital motor

Digital brushless motor based on a permanent magnetic field which uses neodymium iron-boron magnets inside the rotor. With innovative high density coil windings powered by a sinusoid three-phase power system, the motor of the BE20 is powered by low voltage (24V DC/36V DC). The motor is extremely compact and operates at normal ambient temperature, making it suitable for extremely intense use and extraordinarily energy efficient.



4 quadrant Mosfet digital inverter

The digital controller of the digital three-phase sinusoidal motor with field oriented control uses an extremely potent and revolutionary 12 Mosfet, 4 quadrant sinusoidal control digital inverter to control motor power with vector frequency modulation.

Technical SPECIFICATIONS

	BE20/200	BE20/200/HS	BE20/400
Maximum gate leaf length	Up to 2.5 metres per single leaf	to 2.5 metres per single leaf	
Line power supply	230V AC - 115V AC 50/60Hz +-10%	230V AC - 115V AC 50/60Hz +-10%	230V AC - 115V AC 50/60Hz +-10%
Brushless motor power supply	24V	36V	36V
Rated power	200W	200W	200W
Frequency of use	Super Intensive	Super Intensive	Super Intensive
Operating temperature	-20 +55°C	-20 +55°C	-20 +55°C
Degree of protection	IP43	IP43	IP43
Maximum stroke	400 mm total	400 mm total	550 mm total
Time to open to 90°	15 - 25 s	10 - 15 s	17 - 26 s
Speed of operation	1,66 cm/s	3 cm/s RAPID	1,66 cm/s
Thrust	100 - 2200 N	100 - 2200 N	100 - 2800 N
Encoder	Digital native encoder	Digital native encoder	Digital native encoder
Limit switch type	2 adjustable open and closed position mechanical travel limits	2 adjustable open and closed position mechanical travel limits	2 adjustable open and closed position mechanical travel limits
Controller unit	B70/2DC/BOX	EDGE1/BOX (since version P3.05)	EDGE1/BOX (since version P3.20)
Daily operation cycles (open / close – 24 hours Non-stop)	800	800	1.000
Packaged product weight	8,0 kg	8,0 kg	8,5 kg
Release	Eccentric lever with key cylinder	Eccentric lever with key cylinder	Eccentric lever with key cylinder
Number of packages per pallet (single motor)	50	50	36
Number of packages per pallet (motor in kit form)	21	21	18



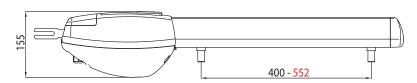
FUNCTIONS of automated

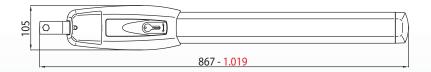
swing gate motor

Miximum length of single gate leaf ### 27.07(2.00) (ESPL/200) ### 193/1022/21 with fixed code counction ###	DESCRIPTION	BE20/200 - KIT BE20/210	BE20/200/HS	BE20/400 - KIT BE20/410
Bigliot controller B79/R222// with fixed ode connection B79/R222// with fixed ode co				
Redic receiver type	• • •			•
Rober power control technology (EPC) Field oriented control (FOC) with SENSORLESS exhology Encoder type Diginal SENSORLESS exhology 230V 50/60 Hz 240V C, 12 Amp/h (optional) 2 external batteries 12V DC, 45 Amp/h (optional) 2 external	Radio receiver type	H93/RX22A/I with fixed code connection	H93/RX22A/I with fixed code connection	H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection
SENSORLESS technology Enteroder type Digital SENSORLESS, A PPR Digital SENSORLES, A PPR Digital SENSORLES, A PPR Digital SENSORLES, A PPR Digital SE	Motor power supply	24V DC, with self-protected inverter	36V DC	36V DC
Mains power supply 209 50/60 Hz (optional) 2 internal batteries [in digital controller box) 129 Oc. 1.2 Ams/h (optional) 2 internal batteries [in digital controller box) 127 Oc. 1.2 Ams/h (optional) 2 external batteries 129 DC, 4.5 Ams/h (optional) 2 exter	Motor power control technology (ETPC)			
Solitery operation (optional) 2 internal batteries (in digital controller boa) 170 DC, 1.2 Amp/h (4.5 Amp/h 4.5 A	Encoder type	Digital SENSORLESS, 48 PPR	Digital SENSORLESS, 48 PPR	Digital SENSORLESS, 48 PPR
controller boo.) YZD G., 1.2 Amp/h (optional) 2 external batteries 17V DC, 4.5 Amp/h 4.5 Am	Mains power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
A.S. Amp/h Very low consumption 1 - 2 motors 24V DC 24V DC 24V DC ED 24V DC E	Battery operation			
Number of motors 1 - 2 motors 24 V D C ED				
Power supply for accessories 24V DC 24V DC LED	Energy consumption	Very low consumption	Very low consumption	Very low consumption
Flashing light type Output for gote opening indicator and automation V 40W 40W 40W 40W 40W Flimed and gouranteed outomatic closing V Gete edge safety management, 8.2KΩ or standard Limit switch type Adjustable open and closed position mechanical travel limits Separate management for motor 1 - 2 V Adjustable open and closed position mechanical travel limits Separate management for motor 1 - 2 V V Force adjustment in nominal movement V V Separate in nominal movement V V V Separate movement V V V Separate in nominal movement V V V Separate movement N V V Separate movement N Separate movement N Se	Number of motors	1 - 2 motors	1 - 2 motors	1 - 2 motors
Output for gate opening indicator and outomation system on warning light √ √ Output for coursey light 40W 40W 40W Course of coursey light 40W √ √ Gate edge safety management, 82 KΩ or standard √ √ √ Limit switch type Adjustable open and closed position mechanical travel limits Adjustable open and closed position mechanical travel limits Separate management for motor 1 · 2 √ √ √ Force adjustment in nominal movement √ √ √ Force adjustment in start-up and deceleration √ √ √ Separate impact force setting for 2 √ √ √ Speed adjustment in start-up and deceleration √ √ √ Speed adjustment force setting for 2 √ √ √ Speed adjustment force setting for 2 √ √ √ Speed adjustment force setting for 2 √ √ √ Speed adjustment in start-up and deceleration √ √ √ Starting acceleration force setting for 2 √ √	Power supply for accessories	24V DC	24V DC	24V DC
System on worning light Output for courtesy light Timed and gouronleed outomatic closing Foce edge safety management, 8.2KCv or standard Adjustable open and closed position mechanical travel limits Separate management for motor 1 - 2 Force adjustment in nominal movement Force adjustment in nominal movement Force adjustment in start-up and deceleration Obstacle detection - Motor reversal Force adjustment Force adj	Flashing light type	24V DC LED	24V DC LED	24V DC LED
Timed and guaranteed automatic closing Gate edge safety management, 8.2KΩ or standard Jajustable open and closed position mechanical travel limits mechanical travel limits Separate management for motor 1 · 2 Force adjustment in nominal movement Force adjustment in nominal movement Force adjustment in start-up and deceleration Force adjustment in start-up and deceleration Force adjustment in start-up and deceleration Force adjustment Force adjustmen	Output for gate opening indicator and automation System on warning light	$\sqrt{}$	$\sqrt{}$	\checkmark
Gate edge safety management, 8.2K\(\Omega\) or standard Limit switch type Adjustable open and closed position mechanical travel limits Adjustable open and closed position mechanical travel limits Force adjustment in nominal movement Force adjustment in nominal movement Force adjustment in start-up and deceleration Obstacle detection - Motor reversal Force adjustment Force adjus	Output for courtesy light	40W	40W	40W
Limit switch type Adjustable open and closed position mechanical travel limits Separate management for motor 1 - 2 I I I I I I I I I I I I I I I I I I	Timed and guaranteed automatic closing	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
methanical travel limits mechanical travel limits mechanical travel limits mechanical travel limits separate management for motor $1 \cdot 2$ $$ $$ $$ Force adjustment in nominal movement $$ $$ $$ $$ $$ Substacle detection - Motor reversal $$ $$ $$ $$ $$ Separate impact force setting for 2 $$ $$ $$ $$ $$ Separate impact force setting for 2 $$ $$ $$ $$ $$ Starting acceleration $$ $$ $$ $$ $$ $$ Starting acceleration (soft-start) $$ $$ $$ $$ $$ $$ $$ Motor stopping distance and bracking distance $$ $$ $$ $$ Motor stopping distance and bracking distance $$ $$ $$ $$ $$ Motor stopping control $$ Pedestrian entry Pedestrian entry Pedestrian entry Pedestrian entry Human presence control $$ $$ $$ $$ $$ $$ Condominium function $$ $$ $$ $$ $$ $$ $$ Condominium function $$ $$ $$ $$ $$ $$ $$ $$ $$ Condominium function $$	Gate edge safety management, 8.2K Ω or standard	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Force adjustment in nominal movement Force adjustment in start-up and deceleration \$\force\$ \int \force	Limit switch type	Adjustable open and closed position mechanical travel limits		
Force adjustment in stort-up and deceleration Obstacle detection - Motor reversal I I I I I I I I I I I I I I I I I I I	Separate management for motor 1 - 2		$\sqrt{}$	$\sqrt{}$
Obstacle detection - Motor reversal $$ $$ $$ Separate impact force setting for 2 $$ $$ $$ Speed adjustment $$ $$ $$ $$ Speed adjustment $$ $$ $$ $$ Starting acceleration (soft-start) $$ $$ $$ Starting acceleration (soft-start) $$ $$ $$ Starting acceleration (soft-start) $$ $$ $$ Starting acceleration function with gate closed $$ $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ $$ Pertial opening control Pedestrian entry Pedestrian entry Pedestrian presence control $$ $$ $$ $$ Condominium function $$ $$ $$ $$ Condominium function $$ $$ $$ $$ Safety device configuration $$ $$ $$ $$ Installation test function (prog button) (prog button) (prog button) Operating temperature $$ $$ $$ $$ Current absorption mapping system (MCA) (MCA) (MCA) (MCA)	Force adjustment in nominal movement	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Separate impact force setting for 2 \$\sqrt{\$}\$ Speed adjustment \$\sqrt{\$}\$ Deceleration \$\sqrt{\$}\$ \$\$	Force adjustment in start-up and deceleration	$\sqrt{}$	$\sqrt{}$	\checkmark
Speed adjustment $$	Obstacle detection - Motor reversal	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Deceleration $$ $$ $$ $$ Starting acceleration (soft-start) $$ $$ $$ Starting acceleration (soft-start) $$ $$ $$ Starting acceleration function with gate closed $$ $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ $$ $$ Pedestrian entry Pede	Separate impact force setting for 2	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Starting acceleration (soft-start) $$ $$ $$ Guaranteed closing $$ $$ $$ $$ Wind protection function with gate closed $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ $$ Pedestrian entry P	Speed adjustment	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Guaranteed closing $$ $$ $$ $$ Wind protection function with gate closed $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ Pedestrian entry Pedestri	Deceleration			$\sqrt{}$
Wind protection function with gate closed $$ $$ $$ Motor stopping distance and braking distance $$ $$ $$ Pedestrian entry P	Starting acceleration (soft-start)	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Motor stopping distance and braking distance $$ $$ $$ Pertial opening control Pedestrian entry $$	Guaranteed closing	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
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Lock management $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Condominium function $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Safety device configuration $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Installation test function (prog button) (prog button) (prog button) Operating temperature $-20^{\circ}\text{C/+55°C}$ $-20^{\circ}\text{C/+55°C}$ $-20^{\circ}\text{C/+55°C}$ Inverter thermal protection $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Current absorption mapping system (MCA) (MCA) (MCA) Restore factory default values $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Information on use of motor $\sqrt{}$ $\sqrt{}$ $\sqrt{}$	Partial opening control	•	•	•
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Safety device configuration $$ $$ $$ Installation test function (prog button) (prog button	Lock management	$\sqrt{}$		
Installation test function (prog button) (prog button) (prog button) Operating temperature $-20^{\circ}(/+55^{\circ}($ $-20^{\circ}(/+55^{\circ}())$ $-20^{\circ}(/+$	Condominium function	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Operating temperature $-20^{\circ}\text{C}/+55^{\circ}\text{C}$ $-20^{\circ}\text{C}/+55^{\circ}\text{C}$ $-20^{\circ}\text{C}/+55^{\circ}\text{C}$ Inverter thermal protection $\sqrt{}$ $\sqrt{}$ Current absorption mapping system (MCA) (MCA) (MCA) Restore factory default values $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Information on use of motor $\sqrt{}$ $\sqrt{}$	Safety device configuration	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
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Restore factory default values $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Information on use of motor $\sqrt{}$ $\sqrt{}$	Inverter thermal protection	$\sqrt{}$	$\sqrt{}$	√ .
Information on use of motor $\sqrt{}$	Current absorption mapping system	(MCA)	(MCA)	(MCA)
	Restore factory default values	$\sqrt{}$	√	$\sqrt{}$
Security password management $\sqrt{}$	Information on use of motor	$\sqrt{}$		√
	Security password management	$\sqrt{}$	$\sqrt{}$	√

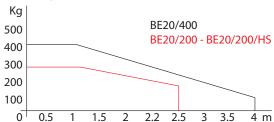
Dimensions

BE20/200 - BE20/200/HS BE20/400





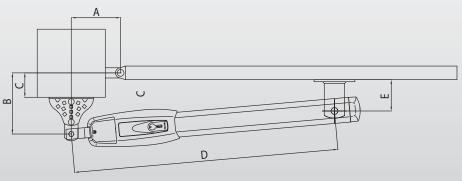
Operating limits



	BE20/200 - BE20/200/HS (MAX RUN = 400 MM)					
Γ	Α	В	C (max)	D (max)	E	α°
	110	180	100	770	92	100°
	110	210	100	770	92	95°
	120	150	100	770	92	105°
L	120	200	100	770	92	100°
L	130	130	100	770	92	105°
	150	130	100	770	92	120°
	150	150	100	770	92	110°
	150	200	100	770	92	100°
	160	150	100	770	92	105°
	160	160	100	770	92	100°

BE20/400 (MAX RUN = 550 MM)					
A	В	C (max)	D (max)	E	α°
120	180	150	922	125	100°
120	200	150	922	125	95°
150	180	150	922	125	105°
150	220	150	922	125	100°
170	200	150	922	125	105°
170	270	150	922	125	120°
200	200	150	922	125	110°
200	240	150	922	125	100°
220	180	150	922	125	110°
220	200	150	922	125	100°

Preparations for standard installation





In KIT BE20/210

for swing gates up to 2.5 m and **KIT BE20/410** for swing gates up to 4 m

Contents

of standard BE20 swing gate motor kit



2 swing gate motors

1 controller

1 radio receiver with 2 fixed code channels, H93 series

2 fixed code remote control units with copying function, E80 series 1 pair of photocells, R90 series 24V DC LED flashing lamp unit with integrated antenna 1 "Automatic Opening" warning notice

The composition of the kit is subject to change in the nature or quantity of the items. For the correct content of the kits always refer to the catalogue, the current sales price lists or the online product catalogue at WWW.ROGERTECHNOLOGY.COM

ACCESSORIES

BE20, everything you need for a complete, professional installation.

OPTIONAL ACCESSORIES



KT201

Long front bracket, to weld, BE20/400 series



KT205

Kit with three long brackets to weld, BE20/400 series



KT202

Short front bracket, to weld, BE20/200 - BE20/200HS



KT206

Kit with three short brackets to weld, BE20/200 -BE20/200HS series



KT203

Short rear bracket, to weld, BE20/400 series



R99/C/001

"Automatic Opening" warning notice



KT204

Short rear bracket, to weld, BE20/200 - BE20/200HS series

STANDARD ACCESSORIES (Always included in the individual product package or kit)





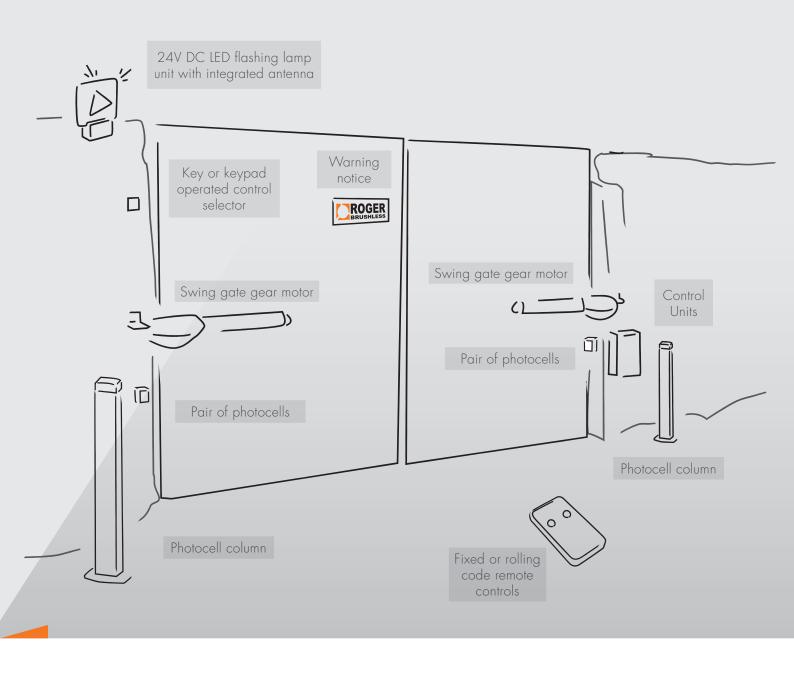
KT206/R Kit short brackets

BE20/200 BE20/200HS



MC781 Two mechanical stop kits

- BE20/400
- BE20/200
- BE20/200HS



STANDARD INSTALLATION

a practical example for your successful installation



the digital speed takes off!

100% FASTER

MANAGE
SEPARATE SPEED IN
OPENING AND CLOSING

MANAGE
SEPARATE SLOW DOWNS
AND ACCELERATIONS IN OPENING
AND CLOSING

100%
SAFETY THANKS TO ITS STARTING
POINT OF SLOW DOWNS WITH
ITS RELATED SPEED



WWW.WEAREBRUSHLESS.COM



PREMIUM DEALER / AUTHORISED DEALER

ROGER TECHNOLOGY

Via S. Botticelli, 8 - 31021, Bonisiolo di Mogliano Veneto (TV) - ITALY T. +39 041 5937023 - F. +39 041 5937024

