



# **BH30 SERIES**

Today's digital intelligence moves your gate





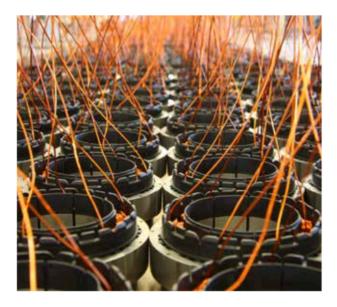


#### Production technology

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 ROGER BRUSHLESS

Digital Brushless Motor

Revolutionary and innovative digital Brushless motor with permanent magnetic field, 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 the automation system management and safety rules, but setting new standards in gate safety.

New Generation of Electronics

The new control unit with onboard 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 created with the main goal of being a motor for super intensive use and with a 99% efficiency.

Regardless of how many operations the engine performs in a day, it allways remains cold or at the most reaches the outside ambient temperature.

## **COMPLETELY BRUSHLESS**

The revolutionary digital motor with 12 unique features



## THE DIGITAL SILENCE OF THE MOTOR

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 a product that was fun any other product on t Gact: our motor remai after many days of surp

our customers with lamentaly different to e market. permanently cold even intensive 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. All in full compliance with safety requirements.



#### 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

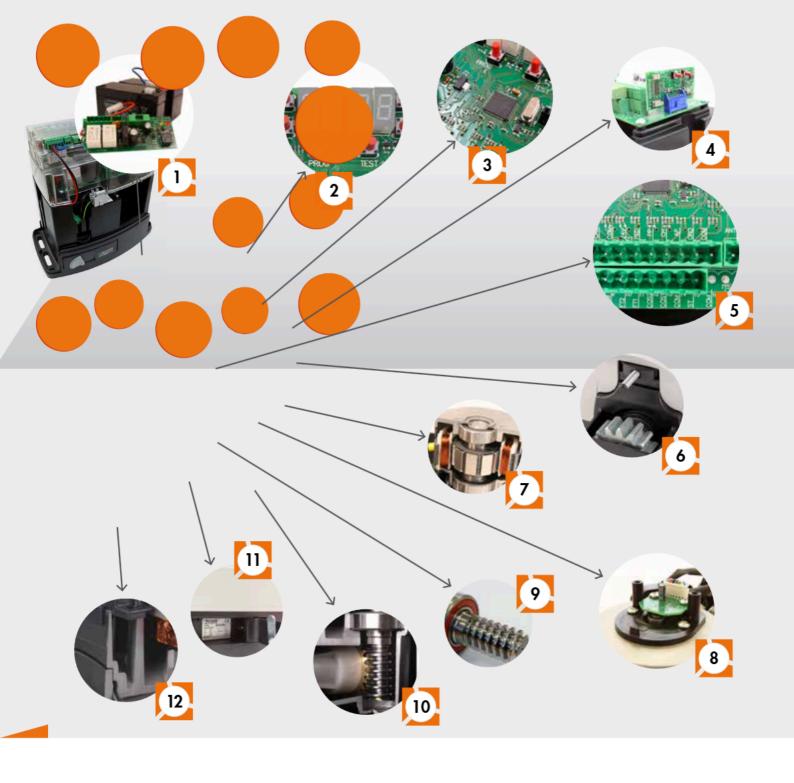
The BRUSHLESS motor can be installed by simply connecting it using three wires! What could be easier? This will provide full digital management of your automation system thanks to the sensoreless and sensored (absolute encoder) technology incorporated in the BRUSHLESS sliding gate motors.



#### 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.



#### 1 Standby batteries in the event of power failure

No problem in the event of power failure change to due to the onboard standby batteries with two 12V DC 1.2 a/h  $\,$ batteries and the associated charging card located in a protected position inside the gate operator cover.



#### 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.



#### Control on DSP microcontroller

Management of the BRUSHLESS motor by connection of a single 3-wire cable, with full digital management of your automation system thanks to the power control technology of the SENSORED motor.



## Plug-in 2-channel radio receiver

Powerful 2-channel radio receiver with up to 500 storable radio controls, available in fixed code or rolling code versions.



## 5 Wide availability of inputs

The digital controller offers a wide range of inputs for management and connection of all accessories and safety devices.



#### Limit switch for any installation

The whole range of sliding gate motors in the BH30 series is available with a mechanical limit switch or magnetic limit switch managed by the powerful onboard native digital encoder.



## BRUSHLESS 🗖 digital motor

Digital brushless motor based on a permanent magnetic field which uses neodymium iron-boron magnets inside the rotor. With special concentrated coil windings, powered by a three-phase sinusoidal power system and available in 24V, 36V and 220V AC versions, the motor is extremely compact and operates at ambient temperature, guaranteeing superintensive use with extremely low consumption.



### Extremely powerful digital encoder

Thanks to the SENSORED technology and the native encoder in the motor, it is possible to exploit the technology provided by a motor encoder with a computing capacity of 4096 pulses per revolution. An effective power control that allows safe management of the automation system in all its movements, especially in the obstacle detection phases.



### High quality worm gears and bearings

Special worm gears and motor shafts obtained by pressure rolling processes guarantee durability and silence. Use of high-quality ball bearings with double protection.



## High precision engineering

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



#### Eccentric aluminium lock release lever

The release lever is made entirely of aluminium with opening by key cylinder. The opening system is based on a very robust and powerful eccentric operating method, and on the principle of the double lever, which unlocks the automation system easily and reliably.



### Reinforced aluminium body

The BH30 body is made completely of aluminium reinforced with titanium. The thicknesses are increased and reinforced in the areas of greatest stress or possible wear. Treatment with epoxy paints to protect the body from the weather.

# Technical SPECIFICATIONS

	BH30/603	BH30/604	BH30/803	BH30/804	BH30/503HS	BH30/504HS
Code Description	Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ide- al for sliding gates from 400 Kg to 600 Kg. with built-in digital controller B70 series, mechanical limit switch.	Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ide- al for sliding gates from 400 Kg to 600 Kg. with built-in digital controller B70 series, magnetic limit switch.	Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ide- al for sliding gates from 800 Kg to 1000 Kg. with built-in digital controller B70 series, mechanical limit switch.	Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates from 800 Kg to 1000 Kg. with built-in digital controller B70 series, magnetic limit switch.	Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 500 Kg, and high speed, with built-in digital controller B70 series, mechanical limit switch.	Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 500 Kg, and high speed, with built-in digital controller B70 series, mechanical limit switch.
Max gate weight	from 400 to 600 kg	from 400 to 600 kg	from 800 to 1000 kg	from 800 to 1000 kg	500 Kg	500 kg
Line power supply	230V AC - 115V AC 50/60Hz +-10%	230V AC - 115V AC 50/60Hz +-10%	230V AC - 115V AC 50/60Hz +-10%	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	24V	24V	24V	24V	24V
Rated power	130W	130W	200W	200W	200W	200W
Frequency of use	Super Intensive	Super Intensive	Super Intensive	Super Intensive	Super Intensive	Super Intensive
Operating temperature	-20 +55°C	-20 +55°C	-20 +55°C	-20 +55°C	-20 +55°C	-20 +55°C
Degree of protection	IP43	IP43	IP43	IP43	IP43	IP43
Speed of operation	0,16 m/sec	0,16 m/sec	0,16 m/sec	0,16 m/sec	0,44 m/sec	0,44 m/sec
Thrust	50 - 600 N	50 - 600 N	50 - 1000 N	50 - 1000 N	50 - 500 N	50 - 500 N
Encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder
Limit switch type	Mechanical with microswitch	Magnetic	Mechanical with microswitch	Magnetic	Mechanical with microswitch	Magnetic
Onboard control unit	B70/1DC	B70/1DC	B70/1DC	B70/1DC	B70/1DC	B70/1DC
Daily operation cycles (open / close - 24 hours non-stop)	1300	1300	1300	1300	800	800
Packaged product weight	11,2 kg	11,2 kg	11,2 kg	11,2 kg	11,2 kg	11,2 kg
Release	Eccentric lever with key cylinder	Eccentric lever with key cylinder	Eccentric lever with key cylinder	Eccentric lever with key cylinder	Eccentric lever with key cylinder	Eccentric lever with key cylinder
Rack module	4	4		4	4	4
Number of packages per pallet	44	44	44	44	44	44



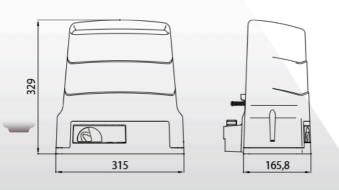
# FUNCTIONS of automated swing gate motor

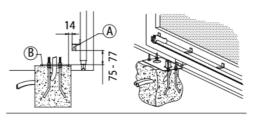
Max gate weight         from 400 kg to 600 kg         from 800 kg to 1000 kg         up to 200 kg           Onboed dignic ceroler         877/10C         877/10C <t< th=""><th>DESCRIPTION</th><th>BH30/603 - BH30/604</th><th>BH30/803 - BH30/804</th><th>BH30/503HS - BH30/504HS</th></t<>	DESCRIPTION	BH30/603 - BH30/604	BH30/803 - BH30/804	BH30/503HS - BH30/504HS
Onboard diginal coantroller         870/10C         870	DESCRIPTION	визо/ 003 - визо/ 004	BN30/ 803 - BN30/ 804	BN30/303N3 - BN30/304N3
Rodio receiver type         IMPS/2022/J vinh fixed rode connection/1978, 2022/F, with rolling rode connection/1978, 2022/F	Max gate weight	from 400 kg to 600 Kg	from 800 kg to 1000 Kg	up to a 500 kg
Radia (rever type   247 C.C with rolling code connection   249 C.C with rolling code connection   247 C.C with rolling code connectio	Onboard digital controller	B70/1DC	B70/1DC	B70/1DC
Motor management technology (ETC)   STROBED technology   CERORED technology   Ceropathic STROBED, 4096 pubbes per revolution   Ceropathic STROBED, 4096 pubbes pe	Radio receiver type			
Encoder types         Magnetic Digital SENSORED, 4096 pulses per revolution         Magnetic Digital SENSORED, 4096 pulses per revolution         Magnetic Digital SENSORED, 4096 pulses per revolution           Mains power supply         2300 So/A Bit	Motor power supply	24V DC	24V DC	24V DC
Mains power supply   2005 0/60 Hz	Motor management technology (ETC)	SENSORED technology	SENSORED technology	SENSORED technology
Bettery operation         (optional) 2 internal batteries 12V DC, 1.2 o/k (optional) 2 internal batteries 12V DC, 1.2 o/k (optional) 2 internal batteries 12V DC, 1.2 o/k         (option	Encoder type			
Energy consumption Very low consumption Very low consumption Very low consumption Number of motors  Power supply for accessories 24 VD C. 25 VD C.	Mains power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Number of motors         Power supply for accessories         24V DC         24V DC LED	Battery operation	(optional) 2 internal batteries 12V DC, 1.2 a/h	(optional) 2 internal batteries 12V DC, 1.2 a/h	(optional) 2 internal batteries 12V DC, 1.2 a/
Power supply for accessories         24V DC LED	Energy consumption	Very low consumption	Very low consumption	Very low consumption
Bushing light type         24V OCEB         24V OCED         24V OCED </td <td>Number of motors</td> <td></td> <td></td> <td></td>	Number of motors			
Output for gute opening indictor and on Juntan for courtey light         40         40%	Power supply for accessories	24V DC	24V DC	24V DC
outposed for oursely light         40W         40W         40W           Timed and guaranted automatic (olsing a Cabe cabes sixty management, 8.2KC or standard         V         V           Citize cabes sixty management, 8.2KC or standard         Mechanical - Magnetic         Mechanical - Magnetic         Mechanical - Magnetic           Force adjustment in nominal movement         V         V         V           Force adjustment in start-up and deceleration         V         V         V           Obstack detection (also in position recovery mode) - Motor reversal         V         V         V           Speed adjustment         V         V         Regolabilic separatamente in opertura e in chiusura           Escilore punto di partezza rollentamento         V         V         Regolabilic separatamente in opertura e in chiusura           Stortinia acceleration (soft-start)         V         V         Regolabilic separatamente in opertura e in chiusura           Stortinia acceleration (soft-start)         V         V         Regolabilic separatamente in opertura e in chiusura           Guaranteed closing         V         V         Regolabilic separatamente in opertura e in chiusura           Stortinia acceleration (soft-start)         V         V         Regolabilic separatamente in opertura e in chiusura           Stopping space and motor bricking         V	Flashing light type	24V DC LED	24V DC LED	24V DC LED
Timed and guaranteed automatic closing         Image: Comment of Standard		$\checkmark$	$\sqrt{}$	$\checkmark$
Gleeches sefety maragement, 82MC or standard         %         %           Limit switch type         Mechanical - Magnetic         Mechanical - Magnetic         Mechanical - Magnetic           Force adjustment in nominal movement         V         V         V           Force adjustment in start-up and deceleration         V         V         V           Obstacle detection (also in position recovery)         V         V         Regolabilis esperatumente in apertura e in objustiva e in	Output for courtesy light	40W	40W	40W
standard         Mechanical - Magnetic         Mechanical - Magnetic         Mechanical - Magnetic           Force adjustment in nominal movement         V         V           Obstacle detection (also in position recovery mode) - Motor reversal         V         V           Speed adjustment         V         Regolabile separatamente in apertura e in chiusura           Deceleration         V         Regolabile separatamente in apertura e in chiusura           Gestione punto di partenza rallentamento         V         Regolabile separatamente in apertura e in chiusura           Storling acceleration (soft-start)         V         N         Regolabile separatamente in apertura e in chiusura           Guaranteed closing         V         V         Regolabile separatamente in apertura e in chiusura           Storping space and motor braking         V         V         V           Storping space and motor braking         V         V         V           Purtial opening control         Pedestrian entry         Pedestrian entry         Pedestrian entry           Human presence control         V         V         V           Condominium function         V         V         V           Steffy device configuration         V         V         V           Operating temperature         20°C/+55°C         <	Timed and guaranteed automatic closing	$\checkmark$	$\checkmark$	$\checkmark$
Force adjustment in nominal movement  Force adjustment in start-up and deceleration  Speed adjustment in start-up and deceleration  Speed adjustment  Speed		$\checkmark$	$\checkmark$	$\checkmark$
Force adjustment in start-up and deceleration  Desceleration (also in position recovery mode) - Motor reversal  Speed adjustment  Deceleration  Deceleration  Deceleration  Deceleration  Deceleration  Starting acceleration (soft-start)  Starting acceleration separationente in apertura e in discussion acceleration accel	Limit switch type	Mechanical - Magnetic	Mechanical - Magnetic	Mechanical - Magnetic
Deceleration (soft in position recovery)  Deceleration	Force adjustment in nominal movement	$\checkmark$	$\checkmark$	$\checkmark$
mode) - Motor reversal         Composition         Regolabile separatamente in apertura e in chiusura           Deceleration         V         Regolabile separatamente in apertura e in chiusura           Gestione punto di partenza rallentamento         V         Regolabile separatamente in apertura e in chiusura           Storting acceleration (soft-stort)         V         Regolabile separatamente in apertura e in chiusura           Guaranteed closing         V         V         Regolabile separatamente in apertura e in chiusura           Stopping space and motor braking         V         V         V           Portial opening control         Pedestrian entry         Pedestrian entry         Pedestrian entry           Human presence control         V         V         V           Condominium function         V         V         V           Safety device configuration         V         V         V           Installation test function         (prog button)         (prog button)         (prog button)           Operating temperature         -20°C/+55°C         -20°C/+55°C         -20°C/+55°C           Inverter thermal protection         V         V         V           Restore factory default values         V         V         V           Information on use of motor         V <th< td=""><td>Force adjustment in start-up and deceleration</td><td><math>\checkmark</math></td><td><math>\sqrt{}</math></td><td><math>\sqrt{}</math></td></th<>	Force adjustment in start-up and deceleration	$\checkmark$	$\sqrt{}$	$\sqrt{}$
Deceleration  De		$\checkmark$	√	√
Feeteration       Chiusura         Gestione punto di partenza rallentamento       √       Regolabile separatamente in apertura e in chiusura         Starting acceleration (soft-start)       √       √       √         Guaranteed closing       √       √       √         Stopping space and motor braking       √       √       √         Pertial opening control       Pedestrian entry       Pedestrian entry       Pedestrian entry         Human presence control       √       √       √         Condominium function       √       √       √         Safety device configuration       √       √       √         Installation test function       (prog button)       (prog button)       (prog button)         Operating temperature       -20°(/+55°C       -20°(/+55°C       -20°(/+55°C         Inverter thermal protection       √       √       √         Restore factory default values       √       √       √         Information on use of motor       √       √       √	Speed adjustment	$\checkmark$	$\sqrt{}$	
Starting acceleration (soft-start)  Storping space and motor braking  Pedestrian entry  Pedestrian entry  Pedestrian entry  Pedestrian entry  Human presence control  Condominium function  V  Condo	Deceleration	$\checkmark$	√	
Guaranteed closing \( \squarebox \) \( \	Gestione punto di partenza rallentamento			√
Stopping space and motor braking       √       √       √         Partial opening control       Pedestrian entry       Pedestrian entry       Pedestrian entry         Human presence control       √       √       √         Condominium function       √       √       √         Safety device configuration       √       √       √         Installation test function       (prog button)       (prog button)       (prog button)         Operating temperature       -20°C/+55°C       -20°C/+55°C       -20°C/+55°C         Inverter thermal protection       √       √       √         Restore factory default values       √       √       √         Information on use of motor       √       √       √	Starting acceleration (soft-start)		√	
Partial opening control Pedestrian entry  N V V V Condominium function V Safety device configuration V Installation test function (prog button) (prog button) (prog button) (prog button) Operating temperature -20°C/+55°C -20°C/+55°C Inverter thermal protection V Restore factory default values V V V V V V V V V V V V V V V V V V V	Guaranteed closing	√	$\sqrt{}$	√
Human presence control       √       √       √         Condominium function       √       √       √         Safety device configuration       √       √       √         Installation test function       (prog button)       (prog button)       (prog button)         Operating temperature       -20°C/+55°C       -20°C/+55°C       -20°C/+55°C         Inverter thermal protection       √       √       √         Restore factory default values       √       √       √         Information on use of motor       √       √       √	Stopping space and motor braking	$\checkmark$	$\sqrt{}$	$\checkmark$
Condominium function $$ $$ $$ $$ $$ Safety device configuration $$ $$ $$ $$ $$ Installation test function $$ (prog button) $$ $$ $$ $$ $$ $$ Restore factory default values $$	Partial opening control	Pedestrian entry	Pedestrian entry	Pedestrian entry
Safety device configuration     √     √       Installation test function     (prog button)     (prog button)       Operating temperature     -20°C/+55°C     -20°C/+55°C       Inverter thermal protection     √     √       Restore factory default values     √     √       Information on use of motor     √     √	Human presence control	$\sqrt{}$	$\checkmark$	$\checkmark$
Installation test function (prog button) (prog button) (prog button)  Operating temperature -20°C/+55°C -20°C/+55°C -20°C/+55°C  Inverter thermal protection √ √ √ √  Restore factory default values √ √ √ √  Information on use of motor √ √	Condominium function	$\sqrt{}$	$\checkmark$	$\sqrt{}$
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 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Restore factory default values $\sqrt{}$	Safety device configuration	$\sqrt{}$	V	V
Inverter thermal protection $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Restore factory default values $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Information on use of motor $\sqrt{}$ $\sqrt{}$	Installation test function	(prog button)	(prog button)	(prog button)
Restore factory default values $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Information on use of motor $\sqrt{}$ $\sqrt{}$	Operating temperature	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Information on use of motor $\sqrt{}$ $\sqrt{}$	Inverter thermal protection	$\sqrt{}$	$\checkmark$	√
	Restore factory default values	$\sqrt{}$	√	√
Security password management $\sqrt{}$	Information on use of motor	$\checkmark$	$\checkmark$	√
	Security password management	$\checkmark$	√	√

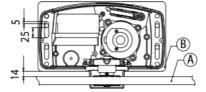
# Dimensions

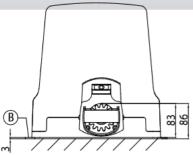
# preparations

for standard installation









A = Rack

B = Fastening plate (thickness 3mm)

Note: All measurements in the drawings are in millimetres



#### KIT BH30/605

Sliding gates from 400 Kg to 600 Kg, mechanical limit switch

#### KIT BH30/606

sliding gates from 400 Kg to 600 Kg, magnetic limit switch

#### KIT BH30/805

sliding gates from 800 Kg to 1000 Kg, mechanical limit switch

#### KIT BH30/806

sliding gates from 800 Kg to 1000 Kg, magnetic limit switch

# Contents of

standard BH30 swing gate motor kit













2 swing gate motors

1 radio receiver with 2 fixed code channels, H93 series

2 fixed code remote control units with copying function, E80 1 pair of photocells, R90 series

1 flashing light LED 24V DC

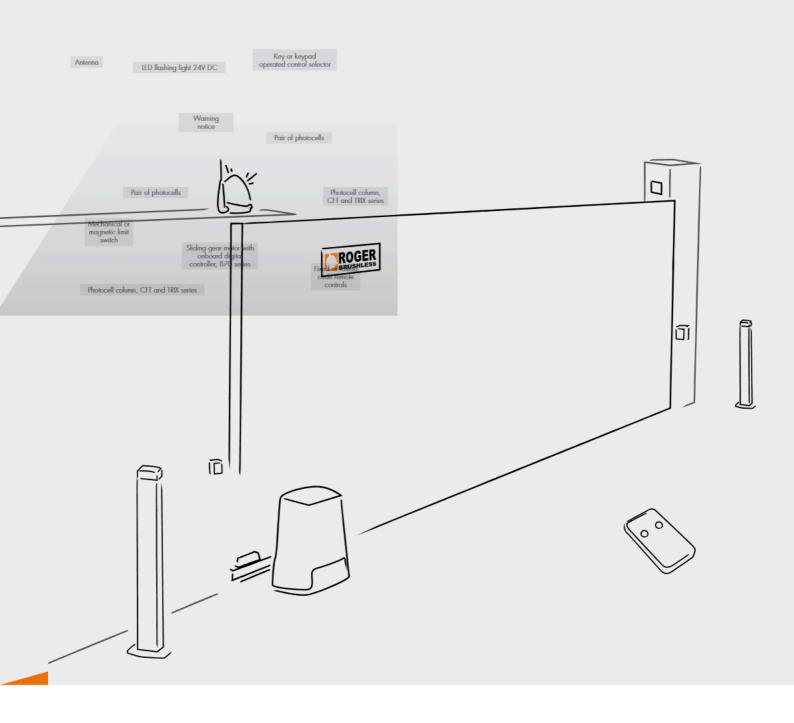
1 antenna

"Automatic Opening" warning notice

# **ACCESSORIES**

BH30 everything you need for a complete, professional installation.

#### **OPTIONAL ACCESSORIES** Adapter plate Nylon rack, complete with module 4, 6 KT214/SC tie-rods and attachments, screws for H30 length 1000 series Raised fastening Pack of 6 plate for H30 GA554 spacers with series screws Steel rack "Automatic 22x22x1000, Opening<sup>a</sup> GA550 R99/C/001 galvanised, warning module 4 notice Steel rack 30x12x1000 STANDARD ACCESSORIES galvanised, GA551 module 4, Always included in the complete with individual product package spacers and screws



# STANDARD INSTALLATION

A practical example for your successful



BH30 HIGH**SPEED** 

nuovo è digitale!

100% PIÙ VELOCE

IN APERTURA E CHIUSURA

E DELLA VELOCITÀ



WWW.WEAREBRUSHLESS.COM





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