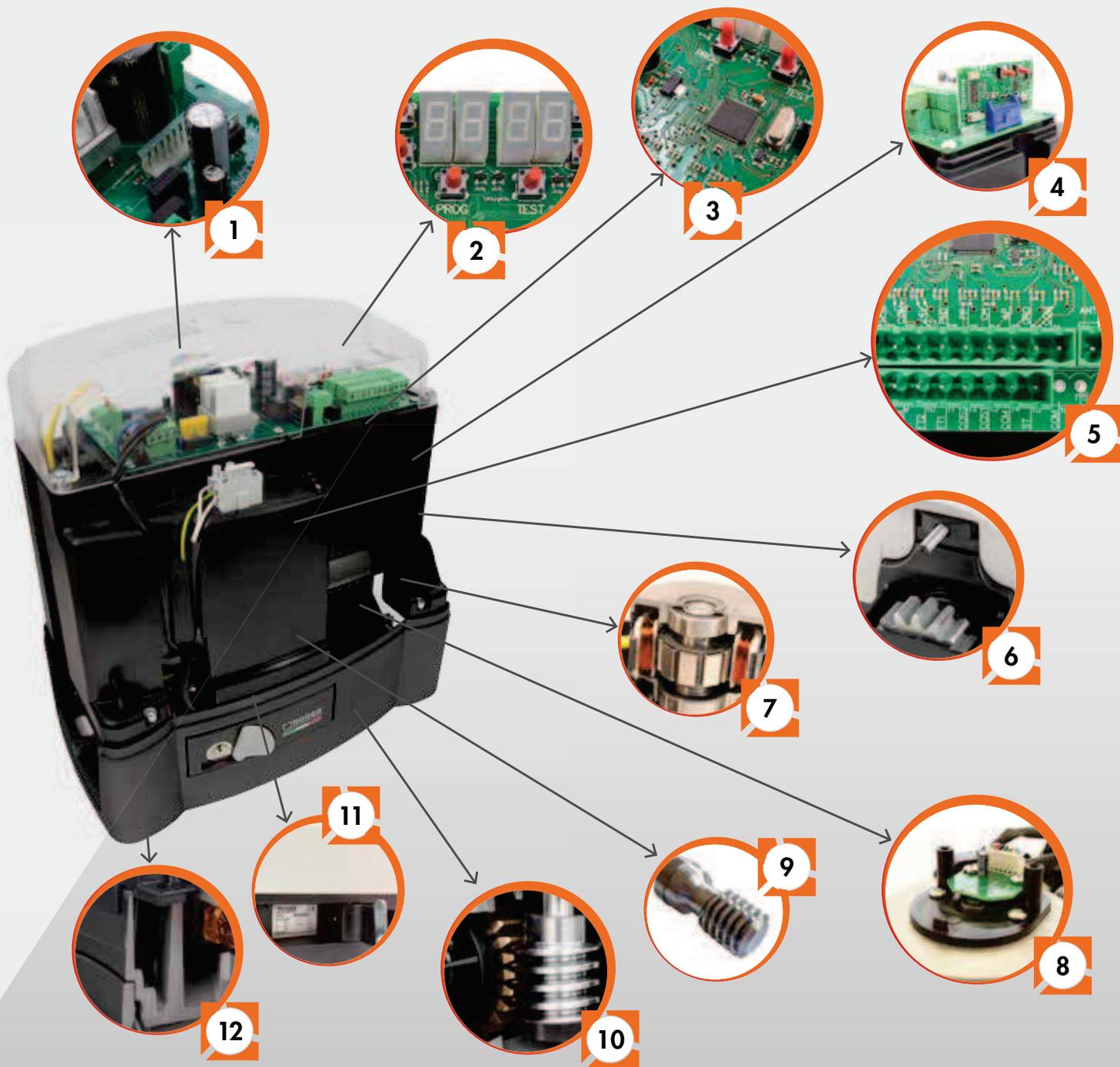




BG30 SERIES

Today's digital intelligence
moves your gate



WHY BRUSHLESS...?

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

1 Standby batteries in the event of power failure

No problem in case of blackout, thanks to the onboard charging card housed in a protected position inside the gate operator cover. In Plug-In Mode the onboard charging card allows to manage two external 12V DC / 4,5 Amp/H standby batteries.

7 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 super-intensive use with extremely low consumption.

2 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.

8 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.

3 Micro-controller with DSP SENSORLESS technology

The digital controller controls the brushless motor via a single 3 core cable, managing your automation system entirely digitally with SENSORED motor power control technology

9 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.

4 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.

10 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.

5 Wide availability of inputs

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

11 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.

6 Limit switch for any installation

The whole range of sliding gate motors in the BG30 series is available with a mechanical limit switch or magnetic limit switch managed by the powerful onboard native digital encoder.

12 Reinforced aluminium body

The BG30 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

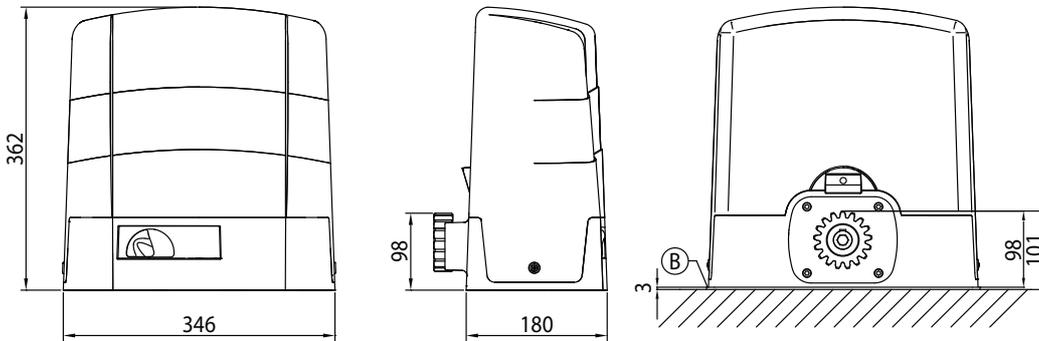
	BG30/1603	BG30/1604	BG30/2203	BG30/2204	BG30/1003/HS	BG30/1004/HS	BG30/1404/R
Code Description	Electromechanical BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 1600 Kg.	Electromechanical BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 1600 Kg.	Electromechanical BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 2200 Kg.	Electromechanical BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 2200 Kg.	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 1000 Kg.	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 1000 Kg.	Electromechanical BRUSHLESS motor, low voltage, intensive use, ideal for sliding gates up to 1400 Kg.
Redcutor Type	Irreversible	Irreversible	Irreversible	Irreversible	Irreversible	Irreversible	Reversible
Max gate weight	1600 kg	1600 kg	2200 kg	2200 kg	1000 kg	1000 kg	1400 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%				
Brushless motor power supply	36V	36V	36V	36V	36V	36V	36V
Max power	390W	390W	470W	470W	590W	590W	540W
Frequency of use	Intensive	Intensive	Intensive	Intensive	Intensive	Intensive	Intensive
Operating temperature	-20 +55°C	-20 +55°C	-20 +55°C				
Degree of protection	IP43	IP43	IP43	IP43	IP43	IP43	IP43
Max Speed of operation	0,20 m/sec	0,20 m/sec	0,16 m/sec	0,16 m/sec	0,33 m/sec 	0,33 m/sec 	0,28 m/sec 
Max Thrust	1200 N	1200 N	1700 N	1700 N	800 N	800 N	600 N
Encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder	Digital native encoder
Typology encoder	Digital SENSORED	Digital SENSORED	Digital SENSORED				
Limit switch type	Mechanical with microswitch	Magnetic	Mechanical with microswitch	Magnetic	Mechanical with microswitch	Magnetic	Magnetic
Onboard control unit	B70/1DCHP	B70/1DCHP	B70/1DCHP	B70/1DCHP	B70/1DCHP	B70/1DCHP	B70/1DCHP
Daily operation cycles (open / close - 24 hours non-stop)	1000	1000	1000	1000	800	800	800
Packaged product weight	19,6 Kg	19,6 Kg	20,0 kg	20,0 kg	19,6 Kg	19,6 Kg	20,0 kg
Release	Eccentric lever with key cylinder	Eccentric lever with key cylinder	Eccentric lever with key cylinder				
Rack module	4	4	4	4	4	4	4
Number of packages per pallet	44	44	44	44	44	44	44



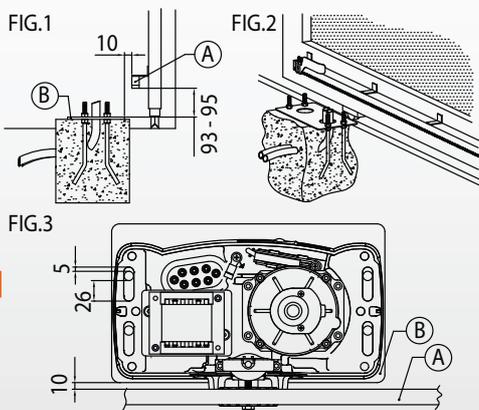
FUNCTIONS of automated sliding gate motor

DESCRIPTION	BG30/1603 - BG30/1604	BG30/2203 – BG30/2204	BG30/1003HS BG30/1004HS	 BG30/1404/R 
Max gate weight	Up to 1600 Kg	Up to 2200 Kg	up to 1000 kg	up to 1400 Kg
Onboard digital controller	B70/1DCHP	B70/1DCHP	B70/1DCHP	B70/1DCHP
Radio receiver type	H93/RX22A/1 with fixed code connection H93/RX2RC/1 with rolling code connection	H93/RX22A/1 with fixed code connection H93/RX2RC/1 with rolling code connection	H93/RX22A/1 with fixed code connection H93/RX2RC/1 with rolling code connection	H93/RX22A/1 with fixed code connection H93/RX2RC/1 with rolling code connection
Motor power supply	36V DC	36V DC	36V DC	36V DC
Motor management technology (ETC)	SENSORED technology	SENSORED technology	SENSORED technology	SENSORED technology
Encoder type	Magnetic Digital SENSORED, 4096 pulses per revolution			
Mains power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Battery operation	(optional) 2 external batteries 12V DC, 4.5 a/h	(optional) 2 external batteries 12V DC, 4.5 a/h	(optional) 2 external batteries 12V DC, 4.5 a/h	(optional) 2 external batteries 12V DC, 4.5 a/h
Energy consumption	Very low consumption	Very low consumption	Very low consumption	Very low consumption
Number of motors	1	1	1	1
Power supply for accessories	24V DC	24V DC	24V DC	24V DC
Flashing light type	24V DC LED	24V DC LED	24V DC LED	24V DC LED
Output for gate opening indicator and automation system on warning light	✓	✓	✓	✓
Output for courtesy light	40W	40W	40W	40W
Timed and guaranteed automatic closing	✓	✓	✓	✓
Gate edge safety management, 8.2KΩ or standard	✓	✓	✓	✓
Limit switch type	Mechanical - Magnetic	Mechanical - Magnetic	Mechanical - Magnetic	Magnetic
Force adjustment in nominal movement	✓	✓	✓	✓
Force adjustment in start-up and deceleration	✓	✓	✓	✓
Obstacle detection (also in position recovery mode) - Motor reversal	✓	✓	✓	✓
Speed adjustment	✓	✓	Adjustable separately in opening and closure	Adjustable separately in opening and closure
Deceleration	✓	✓	Adjustable separately in opening and closure	Adjustable separately in opening and closure
Management of the slowdown starting point	✓	✓	✓	✓
Starting acceleration (soft-start)	✓	✓	Adjustable separately in opening and closure	Adjustable separately in opening and closure
Guaranteed closing	✓	✓	✓	✓
Stopping space and motor braking	✓	✓	✓	✓
Partial opening control	Pedestrian entry	Pedestrian entry	Pedestrian entry	Pedestrian entry
Human presence control	✓	✓	✓	✓
Condominium function	✓	✓	✓	✓
Safety device configuration	✓	✓	✓	✓
Installation test function	(prog button)	(prog button)	(prog button)	(prog button)
Operating temperature	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Inverter thermal protection	✓	✓	✓	✓
Restore factory default values	✓	✓	✓	✓
Information on use of motor	✓	✓	✓	✓
Security password management	✓	✓	✓	✓

Dimensions



preparations for standard installation



- A = Rack
- B = Fastening plate (thickness 3mm)

Note: All measurements in the drawings are in millimetres

ACCESSORIES

BG30 everything you need for a complete, professional installation.

OPTIONAL ACCESSORIES



KT222

Raised fastening plate for G30 series



GA553

Nylon rack, module 4, 6 attachments, length 1000



GA550

Steel rack 22x22x1000, galvanised, module 4



GA554

Pack of 6 spacers with screws



GA551

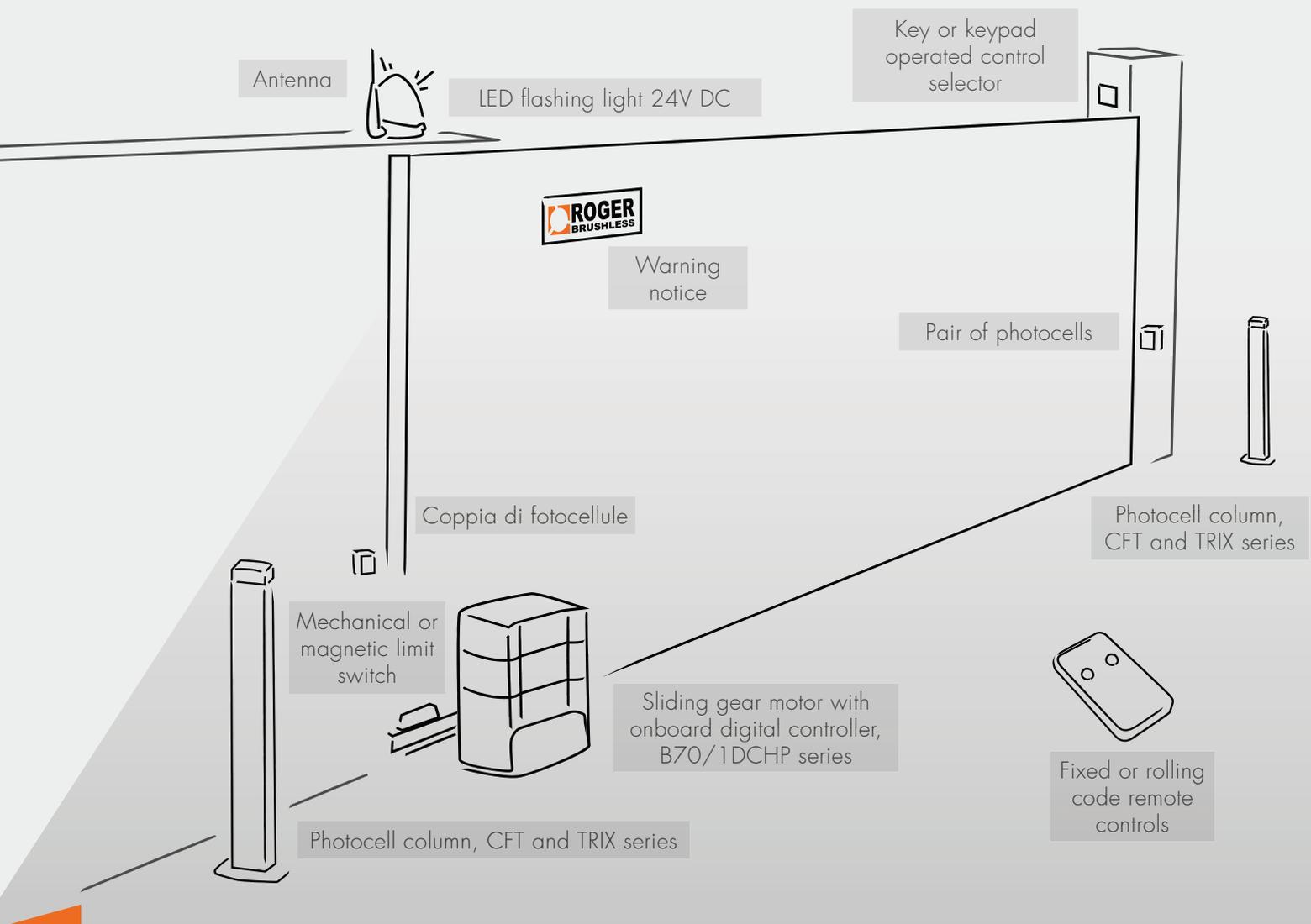
Steel rack 30x12x1000, galvanised, module 4, complete with spacers and screws



R99/C/001

"Automatic Opening" warning notice





STANDARD INSTALLATION

A practical example
for your successful