



# BM30 SERIES

Today's digital intelligence  
moves your gate



# WHY BRUSHLESS...?

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



## 1 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.



## 7 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.



## 2 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.



## 8 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.



## 3 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.



## 9 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.



## 4 Wide availability of inputs

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



## 10 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.



## 5 Limit switch for any installation

The whole range of sliding gate motors in the BM30 series is available with a mechanical limit switch or magnetic limit switch managed by the powerful onboard native digital encoder.



## 11 Reinforced aluminium body

The BM30 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.



## 6 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.



**NEW  
GENERATION  
BLACK COVER**

# Technical SPECIFICATIONS

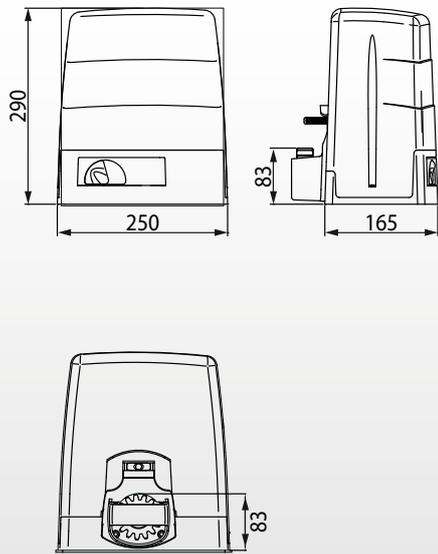
	BM30/303/HS	BM30/304/HS
Code Description	Electromechanical BRUSHLESS motor, low voltage, super intensive use, irreversible high speed version, ideal for sliding gates up to 400 kg, and with built-in digital controller B70 series, mechanical limit switch.	Electromechanical BRUSHLESS motor, low voltage, super intensive use, irreversible high speed version, ideal for sliding gates up to 400 kg, and with built-in digital controller B70 series, magnetic limit switch.
Max gate weight	400 kg	400 kg
Line power supply	230V AC - 115V AC 50/60Hz +-10%	230V AC - 115V AC 50/60Hz +-10%
Brushless motor power supply	24V	24V
Rated power	125W	125W
Frequency of use	Super Intensive	Super Intensive
Operating temperature	-20 +55°C	-20 +55°C
Degree of protection	IP43	IP43
Speed of operation	0,44 m/sec	 0,44 m/sec 
Thrust	20 - 350 N	20 - 350 N
Encoder	Digital native encoder	Digital native encoder
Limit switch type	Mechanical with microswitch	Magnetic
Onboard control unit	B70/1DC	B70/1DC
Daily operation cycles (open / close - 24 hours non-stop)	500	500
Packaged product weight	10,1 kg	10,3 kg
Release	Eccentric lever with key cylinder	Eccentric lever with key cylinder
Rack module	4	4
Number of packages per pallet	44	44



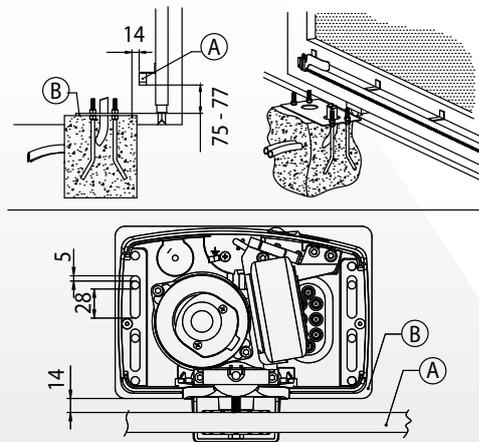
# FUNCTIONS of automated sliding gate motor

DESCRIPTION	BM30/303/HS - BM30/304/HS
Max gate weight	up to a 400 kg
Onboard digital controller	B70/1DC
Radio receiver type	H93/RX22A/1 with fixed code connection H93/RX2RC/1 with rolling code connection
Motor power supply	24V DC
Motor management technology (ETC)	SENSED technology
Encoder type	Magnetic Digital SENSED, 4096 pulses per revolution
Mains power supply	230V 50/60 Hz
Battery operation	not provided
Energy consumption	Very low consumption
Number of motors	1
Power supply for accessories	24V DC
Flashing light type	24V DC LED
Output for gate opening indicator and automation system on warning light	√
Output for courtesy light	40W
Timed and guaranteed automatic closing	√
Gate edge safety management, 8.2KΩ or standard	√
Limit switch type	Mechanical - 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
Deceleration	Adjustable separately in opening and closure
Management of the slowdown starting point	√
Starting acceleration (soft-start)	Adjustable separately in opening and closure
Guaranteed closing	√
Stopping space and motor braking	√
Partial opening control	Pedestrian entry
Human presence control	
Condominium function	√
Safety device configuration	√
Installation test function	(prog button)
Operating temperature	-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*



## BM30 HIGH SPEED

### 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

# ACCESSORIES

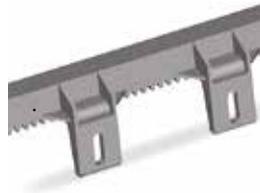
BM30 everything you need for a complete, professional installation.

## OPTIONAL ACCESSORIES



KT220

Raised fastening plate for M30 series



GA553

Nylon rack, module 4, 6 attachments, length 1000



GA550

Steel rack 22x22x1000, galvanised, module 4



GA554

Pack of 6 spacers with screws



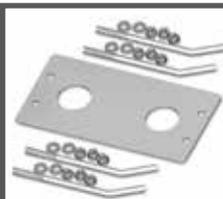
GA551

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



R99/C/001

"Automatic Opening" warning notice



BM30/303/HS

BM30/304/HS

## STANDARD ACCESSORIES

Always included in the individual product package or kit



WWW.WEAREBRUSHLESS.COM



PREMIUM DEALER / AUTHORISED DEALER



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