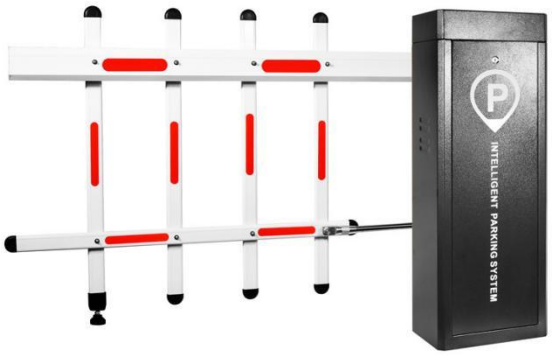
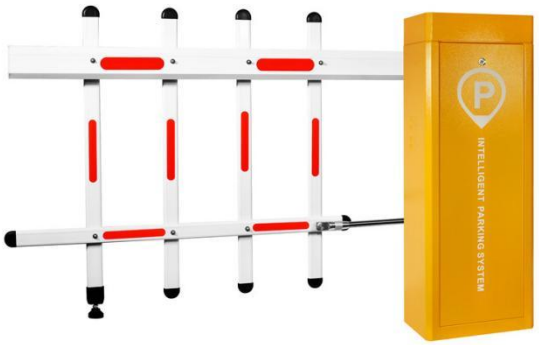
Datasheet of DC Brushless Boom Barrier Gate

Model No.: EF-BB818





Product Description:

EF-BB818 barrier gate is a new generation of digital barrier gate which is designed and produced by our company and can adapt to modern management of "safe, fast, efficient and high quality"; its high standard, high quality and high integration features are fashionable The trendy appearance and its unique color visual charm give people a sense of dignity, elegance and refreshing, which makes it more complementary to each other. It is suitable for parking lots, hotels, schools, garden villas, enterprises and institutions. The matching choice for other occasions.

Specifications:

- Model No.: EF-BB818
- Working voltage: 24V+10%/50HZ
- Motor power: 140W
- Chassis color: black, yellow, gold
- Ambient temperature: -30℃～80℃
- Relative humidity: ≤95%
- Length of the barrier rod: can be customized according to the actual situation on site
- Lift time: generally 1.5～6S
- Height of the center of the brake lever from the ground: 850mm
- Remote control distance: ≤40m
- Protection class: IP44
- Input interface: +12V level signal or pulse signal greater than 100ms; drive current: less than 10mA
- Chassis size: 355mm×280mm×1000mm
- Carton size: 420*390*1080mm
- Chassis weight: 50KG

Mechanical Properties:

- The chassis is durable and waterproof, and can be used in outdoor environment.
- Using an integrated movement and full mold quantitative production, greatly improving product stability and ensuring the operating accuracy of the gate;
- Precision three-link mechanism is adopted to make the gate rod perform a quick and stable action with slow start and pause without impact, effectively reduce the vibration of the gate rod, reduce the load of the motor, and prolong the service life of the gate;
- 140W integrated gear DC motor, stable transmission, low noise, compact structure, no impact when locked, protect the controller and prolong the service life of the controller;

Electrical Characteristics

- High system integration and powerful functions;
- Using lifting overtime protection, the motor will not be overheated, and it can run all day long to prevent abnormal damage to the gate;
- Using imported high-power relays to ensure reliable operation of gates.
- Adopt imported photoelectric isolation protection circuit to ensure signal integrity and strong anti-interference.
- Integrated wireless remote control receiving module with high-performance millions of learning codes to ensure the stability of operation.
- Using a unique arc extinguishing processing circuit to ensure the service life of the control board.
- Using the transformer with imported magnetic core, it can work stably in the outdoor damp environment.
- Integrated optical, electrical and mechanical control, flexible and convenient operation, safe and reliable use.

Safety Features

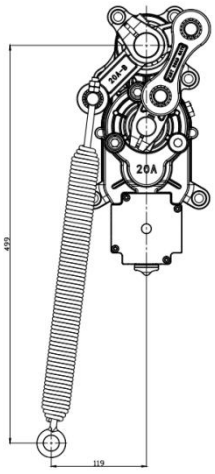
- Rebound in case of resistance (pressure wave anti-smashing): During the falling process of the brake lever, if it encounters an external force, it will automatically lift the lever to reduce the damage caused by mistakes;

  Ground sense anti-smashing: During the falling process of the brake lever, if it receives the ground sense signal, it will automatically lift the lever, and the lever will not fall during the triggering period. After the ground sense signal is restored, the brake lever will automatically fall to ensure safety;
- Open priority to prevent smashing: During the falling process of the brake lever, in case of emergency, whether it is in the state of opening or closing the brake, as long as the brake lever is received, the brake lever will perform the opening action;

Features:

- 1. The motor adopts 140W power, which saves energy and electricity, prevents the motor from overheating, and can run at high speed 24 hours a day;
- 2. Using 1 to 2 springs, the rod length has a large force adjustment range, and the springs are not easy to break.

Internal Structure:



Installation Notes:

- Open the packing box and check the relevant random spare parts according to the spare parts list.
- Determine the installation position of the main gate of the gate according to the left and right direction of the selected gate and the actual situation of the installation site. For non-concrete foundations or when the main body of the road gate is installed with a slope, it is recommended to build a concrete foundation, and it should be ensured that the foundation and the foundation are firmly combined, and the verticality of the main body of the main body of the road gate to the horizontal plane is less than 1°.
- According to the location of the control room or guard box, lay the power line and control line pipe according to the relevant regulations in "GB232 Electrical Installation Engineering Construction and Acceptance Specification" (it is recommended that the power line and control line be put in different line pipes).
- Install expansion screws (determined according to the accessories actually equipped in the list) at the installation position of the main gate of the gate, and fix the main machine of the gate firmly before use.
- Use the crank handle to shake the brake lever to the horizontal position, determine the installation position of the fork lever at the end of the brake lever, and fix the fork lever firmly with screws (no need to install if there is no fork lever).

- Carefully check the wiring diagram, connect the power cord and related control lines to the gate control board, and then tighten and debug after confirming that they are correct.
  Note: The above operations should be performed under the condition of power off.

Specific Operation of Boom Barrier Gate:

- (1) Line pre-buried
  The position of the chassis is determined according to the customer's requirements. If the concrete base needs to be poured, it can be completed in advance (the size of the base is about 100-150mm larger than the outer dimension of the bottom of the gate). Pre-embed or excavate cable trenches between guard boxes, bury line pipes, and penetrate 3X1.5 square millimeters of power lines and 4X0.5 square millimeters of control lines used for equipment. After confirmation, backfill concrete.
- (2) Fixed chassis
  Put the chassis in a fixed position, open the chassis door, then mark the center of the screw holes on the chassis bottom plate and the edge of the chassis base, remove the gate, and drill vertically with a drill bit on the marked screw holes (the size of the drill bit should be the same as that of the chassis). Match the expansion bolts with the equipment), and the depth should meet the length requirements of the expansion bolts. Move the chassis to its original position, drive in the expansion screws and fasten them firmly.
- (3) Installation of brake lever
  After the gate case is firmly fixed, the gate rod can be installed at the position of the rod handle, tightened with the provided screws, and ensure that the gate rod is not inclined. If you need to install the fork rod, after debugging the vertical and horizontal states, use the crank handle to shake the brake rod to the horizontal position, determine the installation position of the fork rod at the end of the brake rod, and fix the fork rod firmly with screws (No need to install if there is no fork lever).
- (4) Installation of peripheral equipment
  The gate is installed firmly, and after the debugging is completed, according to the needs of the customer, the chassis circuit and the control circuit of the related peripheral equipment can be connected according to the wiring diagram of the gate control board, and related debugging can be carried out.