WEJOIN

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WEJOIN Brushless Motor Vehicle Barrier Gate — Model WJCB101VFHL14RCF

Barrier & Boom Arm

- ✓ Brushless DC Motor
- ✓ Higher Stability
- ✓ Extended Service Life
- ✓ Easier Operation

Functions & Features

No.	Item	Functions and Features
1	**Motor**	DC24V brushless motor, featuring stable and reliable helical gear, planetary reduction transmission structure, higher torque, and wear resistance.
2	**Control System**	DC variable frequency control system, precise control, more flexible operation, less mechanical impact, and longer service life.
3	**Auto-reverse on Obstruction**	Sensitive, responsive, safe, and reliable.
4	**Control Panel**	Large LCD screen, visual English menu, simple maintenance, and easy operation.
5	**Remote Control**	433 MHz frequency, easy to add remote controllers.
6	**Power-off Operation**	Turn the handwheel or manually lift the arm to raise/lower the boom. Can also be powered by a DC24V battery, or opened once via supercapacitor backup.
7	**Advanced Features**	Caravan passage mode, counting, automatic aging test, delayed automatic closing, relay signal output, RS485 communication (Supported).
8	**Safety Detection**	Loop detector, infrared photocell, radar (Optional).
9	**Warranty Period**	24 months for motor and control board.

Technical Data

Item Model	WJCB101VFHL14RCF
Operating Speed	1 second
Boom Type	Cylindrical straight foam-covered arm with red reflective stripes
Max Boom Length	4 meters
Input Voltage	AC 110V ± 10%
Motor Voltage	DC 24V
Cabinet Dimensions	367.6 mm × 296 mm × 981.3 mm
Protection Rating	IP54
Working Temperature	-30°C ~ +75°C
MTBF	6 million cycles
Traffic Flow Application	Continuous 24-hour operation
Max Motor Power	240W
Max Motor Speed	500 r/min
Max Torque	280 N·m
Duty Cycle	100%

Machine Core & Control Panel Specifications

CB01VF-H Machine Core Structure

- **24VDC Brushless Motor:** High efficiency, low noise, long life.
- **High-Torque Reducer / Planetary Gear Structure:** Delivers wear resistance and smooth operation.
- **Balanced Multi-Spring Mechanism:** Ensures optimal balance and effort reduction.
- **Interchangeable Left/Right Structure:** Versatile installation flexibility.
- **Motor Handwheel:** For manual operation during power outages.

Control Panel

Integrated LCD screen system supporting RS485 communication & loop detectors.