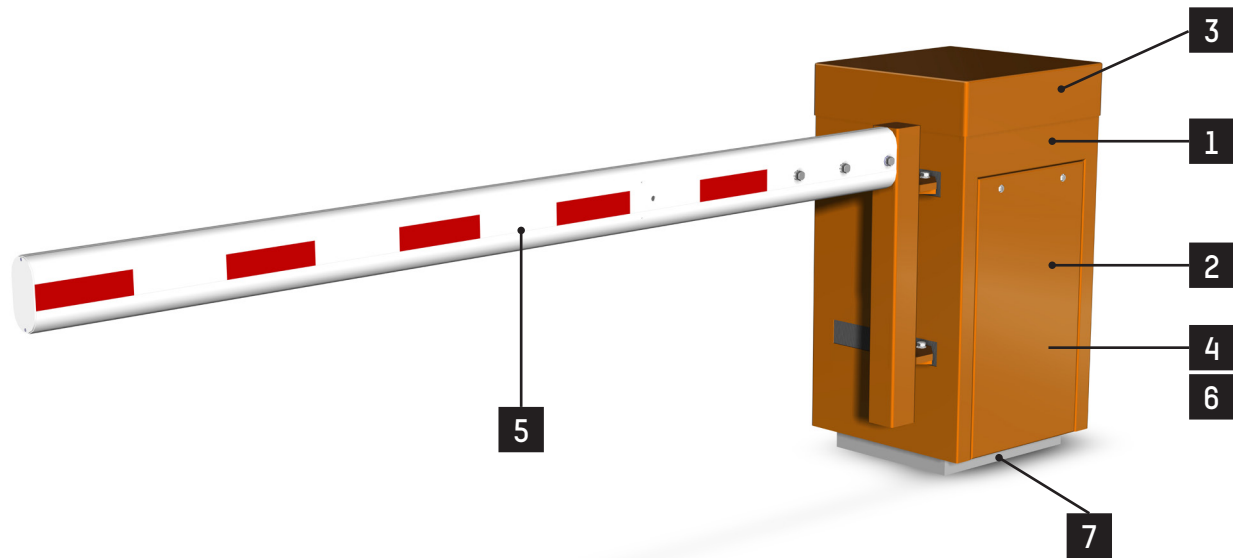


# BP 56

## Datasheet

Rev. 09 • Update 10/2021

**AUTOMATIC**  
SYSTEMS



The swinging barrier type **BP 56** electromechanically operated has been specially developed for the applications in traffic management.


It can function autonomously or be integrated into a system which regulates traffic on motorways, tunnels, mobile bridges etc...

### DESCRIPTION

1. Column shaft in sheet steel of 3 to 10 mm thickness, welded and shaped.
2. Door providing access to the mechanism with safety lock and 2 keys.
3. Removable upper capping, secured internally.
4. Electromechanical unit comprising:
  - asynchronous 3-phase motor,
  - speed reduction gearbox with worm screw, life-lubricated,
  - transmission between the motor and gearbox by means of trapezoidal pulleys and V-belt,
  - adjustable friction torque regulated by Ferodo disks,
  - transmission of movements by means of a crankshaft/rod device ensuring smooth progressive acceleration and deceleration and mechanical locking of the arm in extreme positions,
  - emergency crank with safety circuit breaker for manual operation of the barrier in the event of a power failure.
5. Aluminium barrier arm with reinforced oval section, 100 x 175 mm high, white enamelled with red reflecting stripes. The maximum length of the barrier arm is 8 m but will be reduced depending on the type signalisation used on the barrier arm and the operational site of the barrier, notably those which are particularly susceptible to strong winds (*maritime zones etc ...*)
6. Programmable electronic control board allowing various control operations and/or complementary accessories. The logic is placed in a waterproof casket. Electrical protection is secured by a bipolar circuit-breaker.
7. Frame to be embedded in a concrete base.



## STANDARD TECHNICAL CHARACTERISTICS

Power supply	Single phase 230 VAC, 50/60 Hz + Ground. <sup>[1]</sup>
Nominal power consumption	350 W
Motor	Induction, 3-phase 250 W
Ambient operation temperature	From -20 to +50°C
Useful length of boom arm (L)	From 3 to 8 meters
Operation time	9 secondes
Net weight (without boom arm)	From 380 to 400 kg (depending on boom length, without options)
MCBF (Mean Cycles Between Failures)	When respecting recommended maintenance, 1.500.000 cycles
Protection index	IP03
	EC norms compliant

1) Not to be connected to a floating network or to high impedance earthed industrial distribution network.

## SURFACE TREATMENT

- Internal mechanical items: electrozinc coating.
- Complete housing: phosphating with zinc and cataphoresis + 1 coat of 2-component epoxy anti-rust primer + 1 coat of 2-component polyurethane top coat. Standard colour: Orange RAL 2000.

## WORK TO BE SUPPLIED BY THE CUSTOMER

- Power supply.
- Concrete base, structural and any necessary foundation works.
- Electrical wiring connecting the barrier with its command modules: push button control box(es), key operated switch, etc ....

Note: comply with the installation plan

## OPTIONAL

### CONTROL & COMMAND

1. Push button box - 2 buttons (opening / closing).
2. Push button box - 3 buttons (opening / closing / Stop).
3. Radio transmitter / receiver - 2 channels.
4. Radio transmitter / receiver - 4 channels.
5. Inductive loop for detection car or truck.
6. Presence sensor on rail - Single channel.
7. Presence sensor on rail - Double channel.
8. Human Machine Interface colour screen with keypad.
9. Ethernet interface.
10. SD memory card - Industrial grade.
11. Input / output (I/O) extension card.

### SIGNALISATION

12. LEDs on arm - Per pair (Flashing lights (red) when closed).
13. Electronic board for third-party traffic lights control.
14. Aluminium traffic sign (Ø 400mm).

### AESTHETIC

15. Non standard RAL colour.
16. Treatment for aggressive saline environment. <sup>[2]</sup>

### POWER SUPPLY

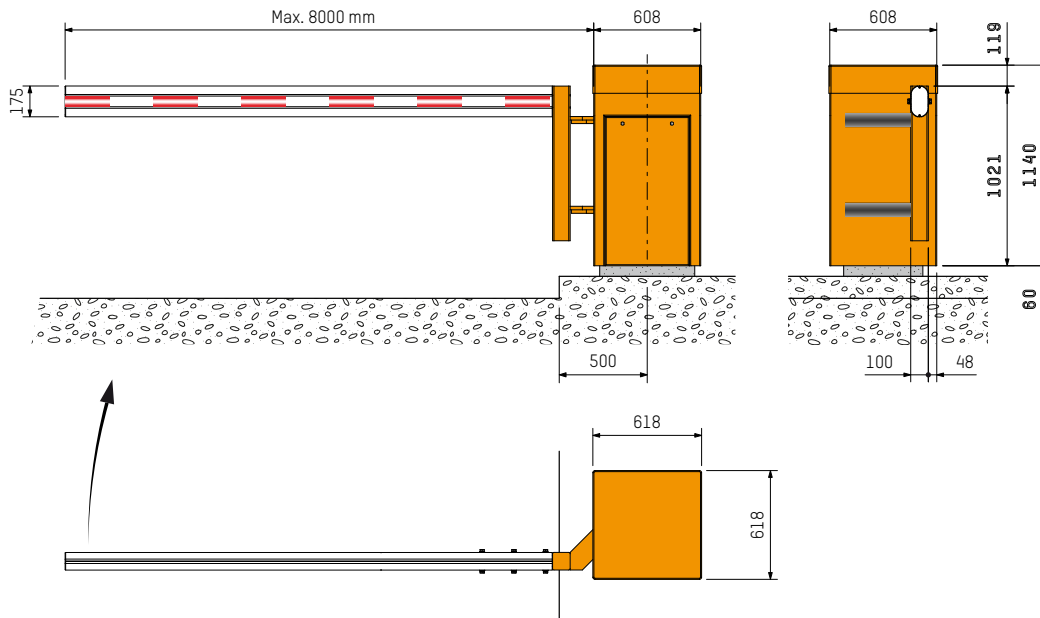
17. Power supply 120 V - 50/60 Hz.

[2] Recommended when the barrier is installed within 10 km of the coast and may be subject to salt attack: sandblasting + Alu Zinc plating 80µm outside (40µm inside) + polyzinc 80µm + 80µm powder paint.

## STANDARD DIMENSIONS (MM)

### BP 56 Right

*(Opening of the arm to the right)*



### BP 56 Left

*(Opening of the arm to the left)*

