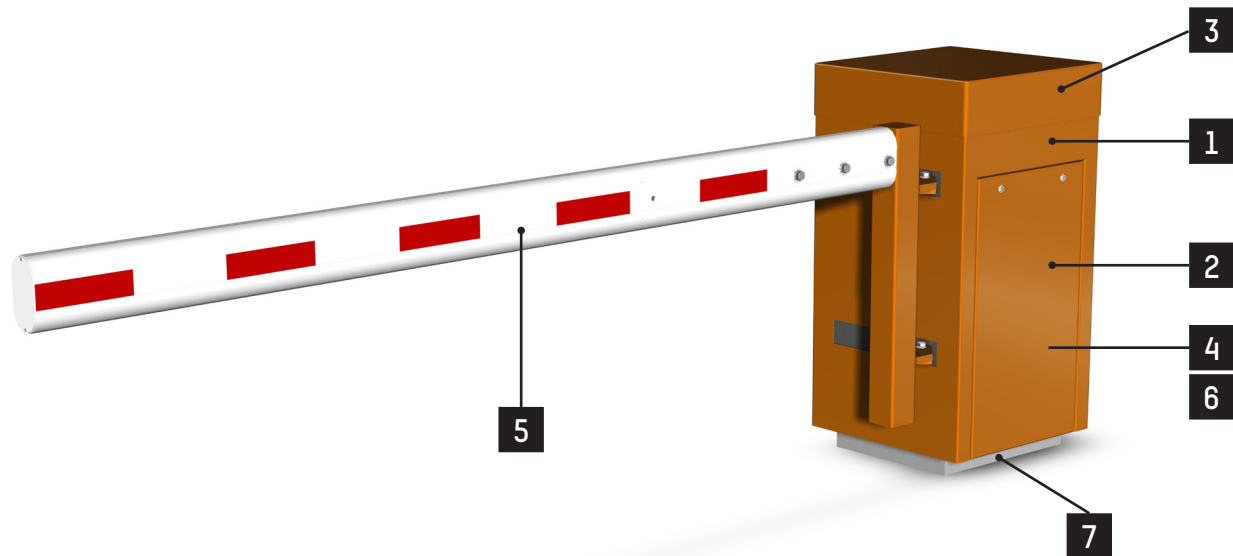


BP 56

Technical datasheet

Rev. 10 • Update 04/2025

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 safety torque limiter with friction disc system,
 - 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. ⁽¹⁾
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)	1.500.000 cycles, in compliance with recommended maintenance
Protection index	IP03
	Complies with European standards.

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.

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

STANDARD RAL COLORS



RAL 2000 (*)
Orange



RAL 3020
Red



RAL 7016
Anthracite grey



RAL 9010
White

(*) Standard color.

All other colors must be specified when ordering.

Note: These RAL references are available for free.

OPTIONS

CONTROL & COMMAND

- Push button box - 2 buttons (opening / closing).
- Push button box - 3 buttons (opening / closing / Stop).
- Radio transmitter / receiver - 2 channels.
- Radio transmitter / receiver - 4 channels.
- Inductive loop for detection car or truck.
- Presence sensor on rail - Single channel.
- Presence sensor on rail - Double channel.
- Human Machine Interface colour screen with keypad for AS1620 logic board (AS1621).
- Ethernet interface (AS1622).
- SD memory card for AS1620 Ethernet board.
- Input / output (I/O) extension card for AS1620 logic board (AS1623).

SIGNALISATION

- LEDs on arm - Per pair (Flashing lights (red) when closed).
- Extension board AS1049 (electronic board for third-party traffic lights).
- Aluminium traffic sign (Ø 400mm).

AESTHETIC

- Non standard RAL colour.
- Treatment for aggressive saline environment. ⁽²⁾

POWER SUPPLY

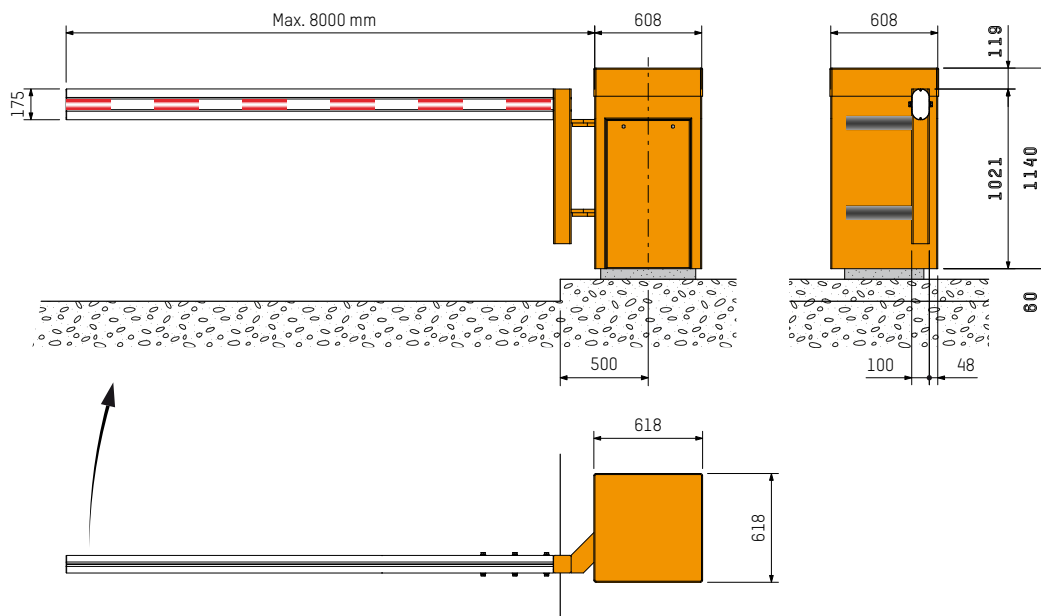
- Power supply 120 V - 50/60 Hz.

(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)

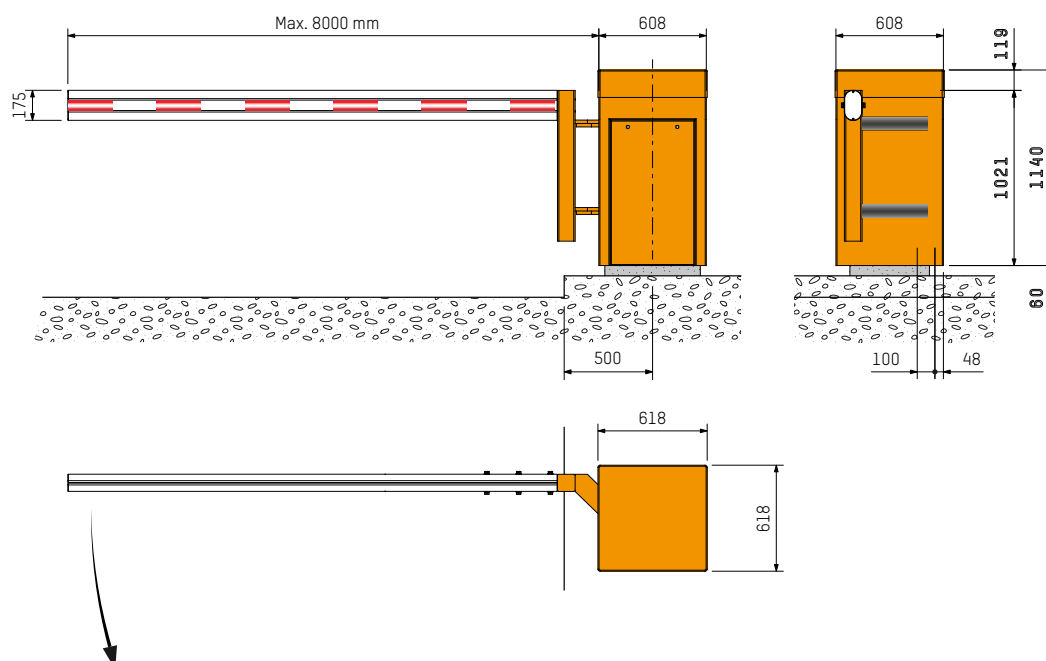
BP 56 Right

(Opening of the arm to the right)



BP 56 Left

(Opening of the arm to the left)



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