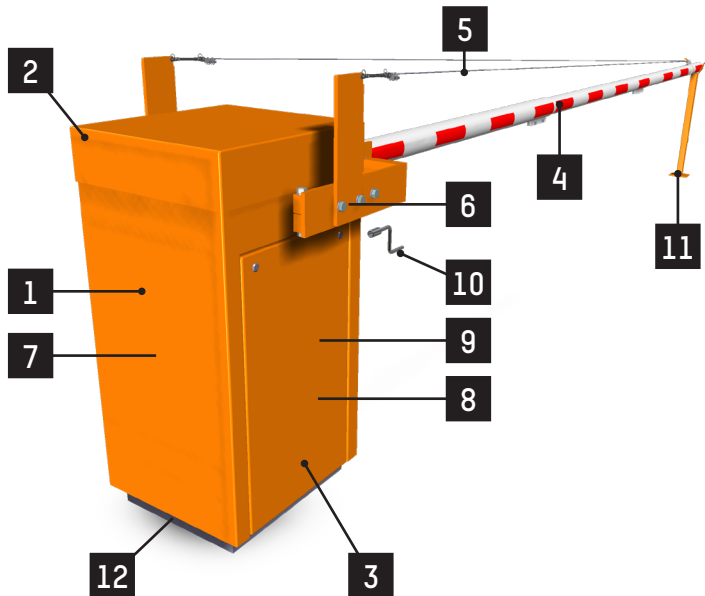


# BL 52

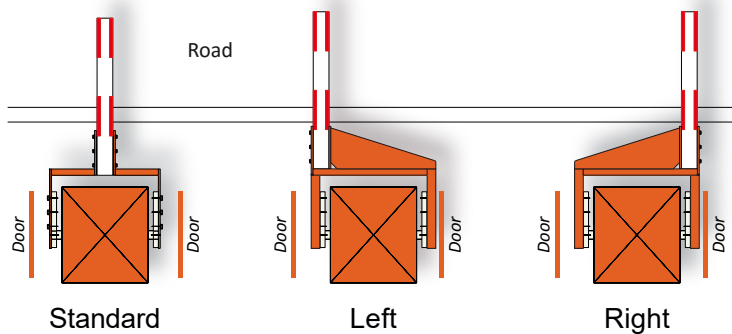
## Datasheet

Rev. 12 • Update 09/2021



The BL 52 rising barrier is an extra-long barrier designed to control vehicle access through large entrances. Its robust and oversized mechanics makes it possible to move a boom arm up to 14 m long.

### CONFIGURATIONS



### DESCRIPTION

1. Manufactured in shaped and welded steel sheeting 3 to 10 mm thick, with a framework of steel profiles welded into a strong section.
2. Removable upper hood, locked from the inside.
3. Two side doors with peripheral weather seals and safety lock to insure easy access to the internal mechanism.
4. Aluminium tube barrier arm, varnished white with red reflecting stripes. The barrier arm is composed of 3 sleeves of decreasing diameter (100/90/84 mm) with an end-sealing cap. The barrier arm is mounted in central position on a steel pole.
5. Bracing wires and slack adjusters in stainless steel. The number of braces is increased from 2 to 8 according to the boom arm length and boom arm options chosen.
6. Arm shaft mounted on two life-lubricated ball bearings.
7. Electro-mechanical assembly comprising:
  - three-phase induction motor,
  - life-lubricated worm-screw gearbox,
  - operation by grooved pulley and V-belt making the adaptation of the operation speed possible according to the length of the boom arm,
  - movement transmission by crankshaft-rod mechanism with ball strap joints, to insure progressive shock-free accelerations and decelerations, as well as mechanical locking of the arm in end positions,
  - safety torque limiter with adjustable friction,
  - limit switches activated by adjustable cams.
8. Barrier arm balancing by means of a compression spring.
9. Programmable electronic control logic allowing various control operations and/or complementary accessories (*see related technical data sheet*). The logic protection to dust and condensation is assured by a removable hood. Electrical protection is secured by a bipolar circuit-breaker.
10. Emergency crank with safety cut-out for manual barrier-operation in the event of power failure.
11. Tip support.
12. Fixing frame made of a fixing frame with threaded rods to be fixed in a concrete base to be provided by the customer.



## 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
Gearbox	Worm-screw, life-lubricated.
Thermostatic heater	80 W.
Ambient operation temperature	From -35 to +50°C.
Boom arm balancing	By adjustable spring(s)
Useful length of boom arm (L)	From 6 to 14 meters.
Position of boom arm	Central
Operation time	8 to 12 sec. according to the boom's range and the installed options.
Tolerated relative humidity	95%, without condensation.
Net weight ( <i>without boom arm</i> )	± 340 kg.
MCBF ( <i>Mean Cycles Between Failures</i> )	When respecting recommended maintenance, 1.500.000 cycles.
Protection index	IP44
Limit switch sensor	IP65



EC norms compliant

<sup>(1)</sup> 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: cationic electrodeposition coating + 1 coat of 2-component epoxy anti-rust primer and 1 top coat of 2-component polyurethane structured paint. Standard colour: Orange, RAL 2000.

## WORK TO BE SUPPLIED BY THE CUSTOMER

- Power supply.
- Electrical wiring connection to the control instruments.
- Means of fixing to the ground, according to the nature of the existing ground.

Note: comply with the installation drawing.

## OPTIONS

### ARMS

1. Folding rigid aluminium skirt. <sup>(a)</sup>
2. Aluminium rigid folding skirt. <sup>(a)</sup>
3. Offset stirrup (left or right).

### TIP SUPPORTS

4. Electromagnetic tip support. <sup>(b)</sup>
5. Folding tip support. <sup>(b)</sup>

### SECURITY & SAFETY

6. Crank handle flap locking.

### CONTROL & COMMAND

7. Push button(s) box.
8. Key switch on housing.
9. Command by radio transmitter/receiver.
10. Inductive loops for cars or trucks detection.
11. Presence detector for inductive loops.
12. Photo electric cell (automatic opening, closing after passage, safety).
13. Cell support post.
14. Cell fixed on housing.
15. Human Machine Interface colour screen with keypad.
16. Ethernet interface.
17. SD memory card for Ethernet interface.
18. Electronic board for Input/Output extension (CAN).
19. Totalling counter (number of vehicle operations or with reset button).

### SIGNALIZATION

20. LEDs on arm.
21. Traffic lights (Ø 200mm) LEDs- Fixed on a support post on the barrier.
22. Traffic lights (Ø 200mm) LEDs.
23. Support post (H = 2.7m) for traffic lights.
24. Electronic board for third-party traffic lights control.
25. STOP traffic sign, Ø 400 mm. <sup>(b)</sup>

### AESTHETICS

26. Non standard RAL colour.
27. AISI 316L stainless steel housing.
28. Raised base.

### POWER SUPPLY

29. 120 VAC, 60 Hz power supply (reduces performances).

### CASES

30. Painted IP66 steel case (dimensions 600x380x120mm) on the housing (with a lock & a key settled with a cable retainer).
31. Painted IP66 stainless steel case (dimensions 600x380x120mm) on the housing (with a lock & a key settled with a cable retainer).

<sup>(a)</sup> Requires an offset stirrup.

<sup>(b)</sup> Some options reduce the arm's range. Consult the «Limit of use» table of the price list.

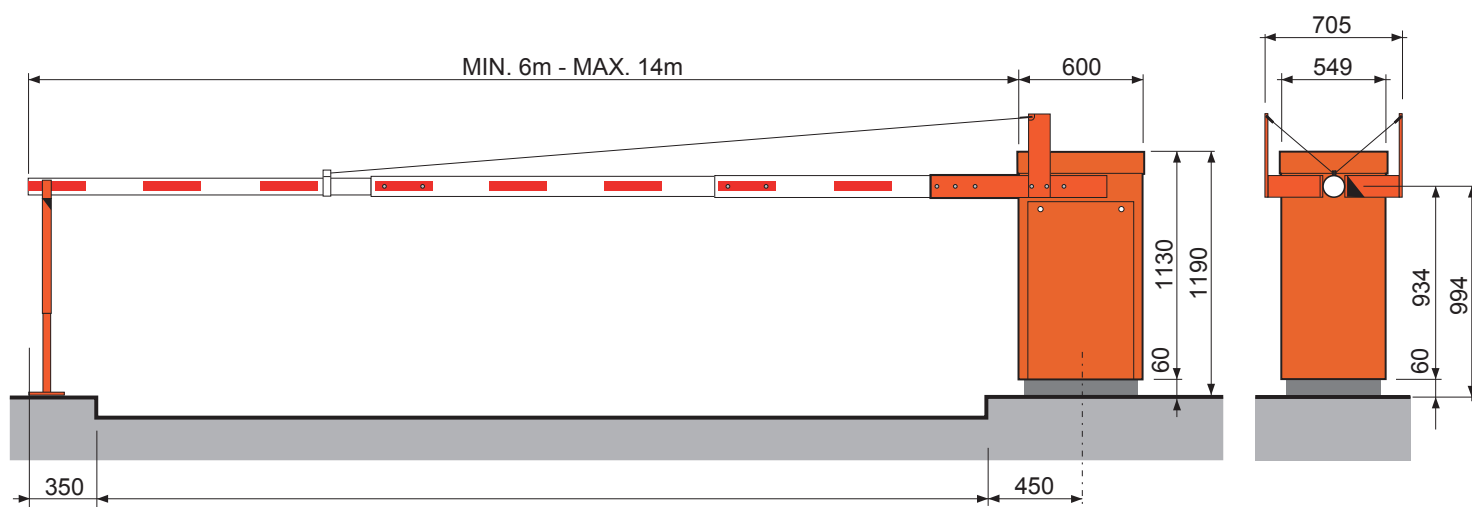
## TRAFFIC MANAGEMENT OPTIONS (ON DEMAND):

32. Rotating base.
33. Stainless steel mechanical parts.
34. Treatment for aggressive saline environment. <sup>(2)</sup>
35. IP55 enclosure on the housing.

Note: for restrictions on the options, consult the rate table.

<sup>(2)</sup> 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)



### Headquarters

Avenue Mercator, 5  
1300 Wavre - Belgium



helpdesk.as@automatic-systems.com



+32.(0)10.23.02.11



www.automatic-systems.com



BL52-FT-EN-12