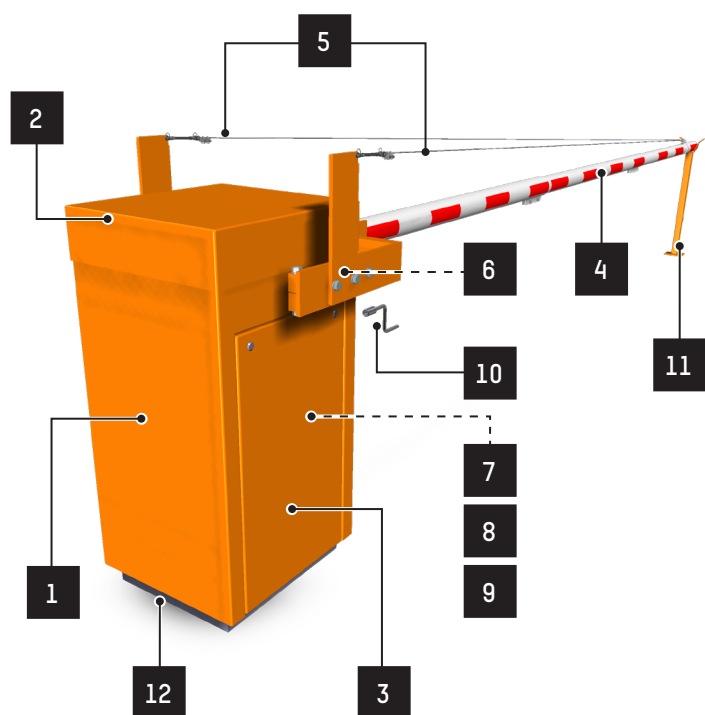


BL 52

Technical datasheet

Rev. 13 • Update 03/2025

AUTOMATIC
SYSTEMS



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.

STANDARD RAL COLOURS



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.

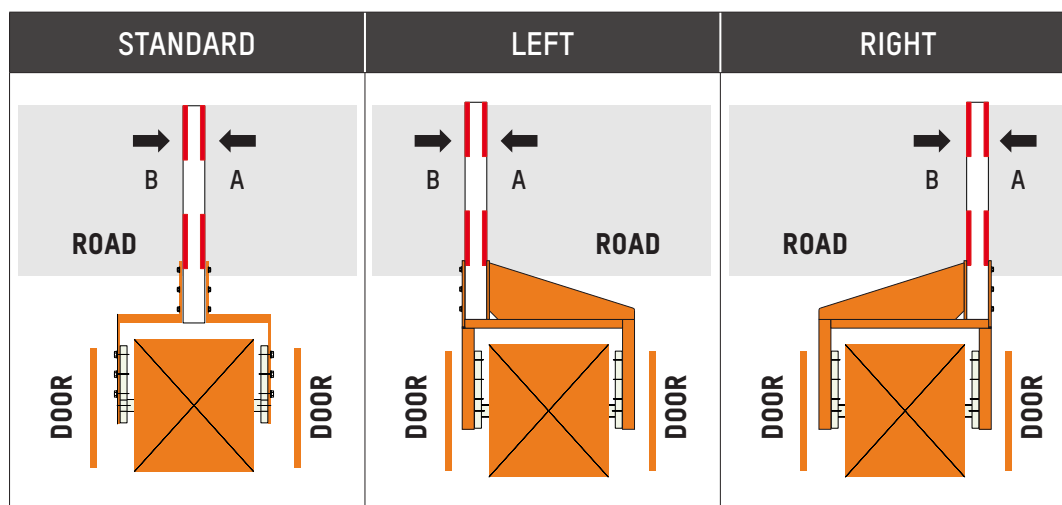
DESCRIPTION

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.



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CONFIGURATIONS



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
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 (without boom arm)	± 340 kg.
MCBF (Mean Cycle Between Failure)	1,500,000 cycles, in compliance with recommended maintenance
Protection index	IP44
Limit switch sensor	IP65
CE	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: 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.

WORKS TO BE PROVIDED 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: Follow the installation plan.

OPTIONS

ARMS

- Folding rigid aluminum skirt - Per linear meter. ^[1]
- Aluminum folding fence - Per linear meter. ^[1]
- Offset stirrup - Left.
- Offset stirrup - Right.

TIP SUPPORT

- Electromagnetic tip support (over 5m).
- Folding tip support (over 5m).

SECURITY & SAFETY

- Crank handle flap locking.

CONTROL & COMMAND

- Push button box - 2 buttons (opening / closing).
- Push button box - 3 buttons (opening / closing / stop).
- Push button box - 2 push buttons + 1 switch (3 positions). ^[2]
- Key switch on the housing. ^[3]
- Radio transmitter/receiver - 2 or 4 channels.
- Inductive loop for detection - Car (2 x 1 m / connexion 5m).
- Inductive loop for detection - Truck (3,50 x 1,50m / connexion 20m).
- Presence sensor on rail - Single channel or Double channel
- Photo-electric cell - Transmitter / Receiver.
- Support post for photo-electric cell (H = 0.7m).
- Cell mounting - Transmitter + Receiver or Reflex. ^[4]
- Human Machine Interface colour screen with keypad for AS1620 logic board (AS1621).
- Ethernet interface (AS1622).
- SD memory card for AS1620 Ethernet board - Industrial grade.
- Input / output (I/O) extension card for AS1620 logic board (AS1623).
- Totalling counter (number of vehicle operations or with resetting).

SIGNALISATION

- LEDs on arm - Per pair (Flashing lights (red) when closed).
- Traffic lights (Ø 200mm) - Red/green LEDs - Fixed on a support post on the barrier.
- Traffic lights (Ø 200mm) - Orange LEDs - Fixed on a support post on the barrier.
- Traffic lights (Ø 200mm) - Red/green LEDs - Supply.
- Traffic lights (Ø 200mm) - Orange LEDs - Supply.
- Support post (H = 2.7m) for traffic lights - Supply.
- Extension board AS1049 (electronic board for third-party traffic lights).
- Aluminum traffic sign (Ø 400mm).

AESTHETIC

- Non standard colour.
- Treatment for aggressive saline environment. ^[5]
- Raised base (60mm-thick in RAL 9005 painted steel).

POWER SUPPLY

- Power supply 120V - 50/60Hz.

CASES

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

Note: For restrictions on options, please contact us.

^[1] Requires an offset stirrup

^[2] Opening / Closing / Switch in auto mode or in manual mode.

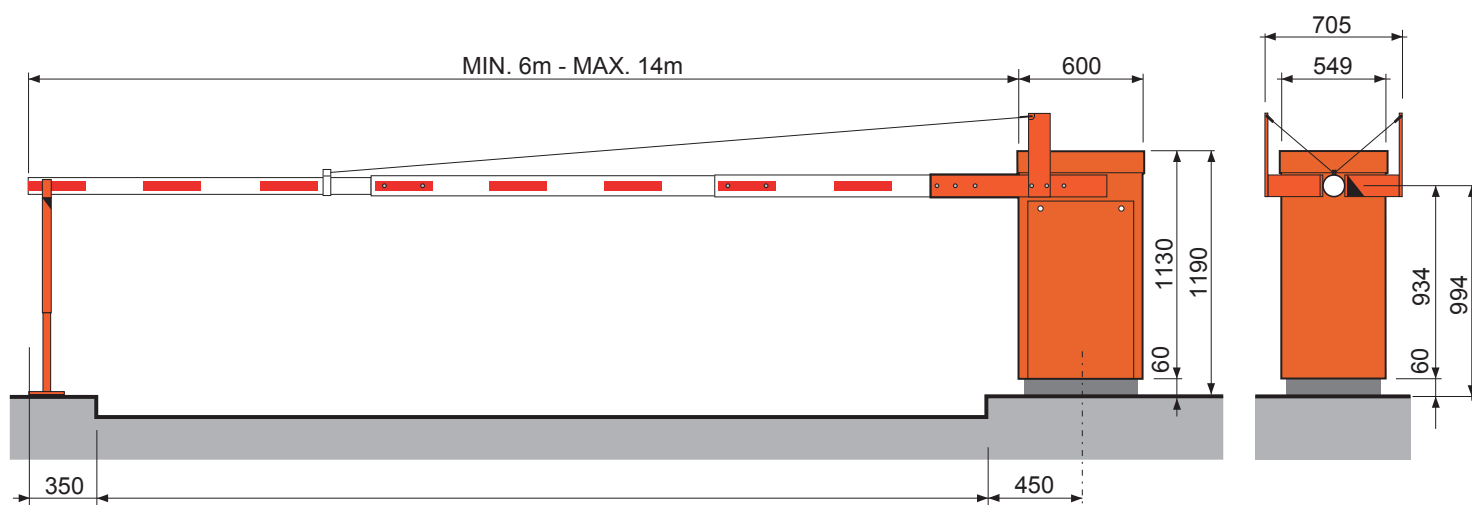
^[3] Automatic / locked open / locked closed.

^[4] Mounting for T/R photo-electric cell (at the customer's choice) : Housing and tip support OR Housing and support post OR Housing only OR Support post and support post.

Mounting for Reflex photo-electric cell at the customer's choice : Housing and tip support OR Housing and support post OR Housing only

^[5] Recommended for an installation within 10 km of the coast: sandblasting + Alu Zinc plating 80µm outside (40µm inside) + polyzinc 80µm + 80µm powder coat.

STANDARD DIMENSIONS (MM)



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