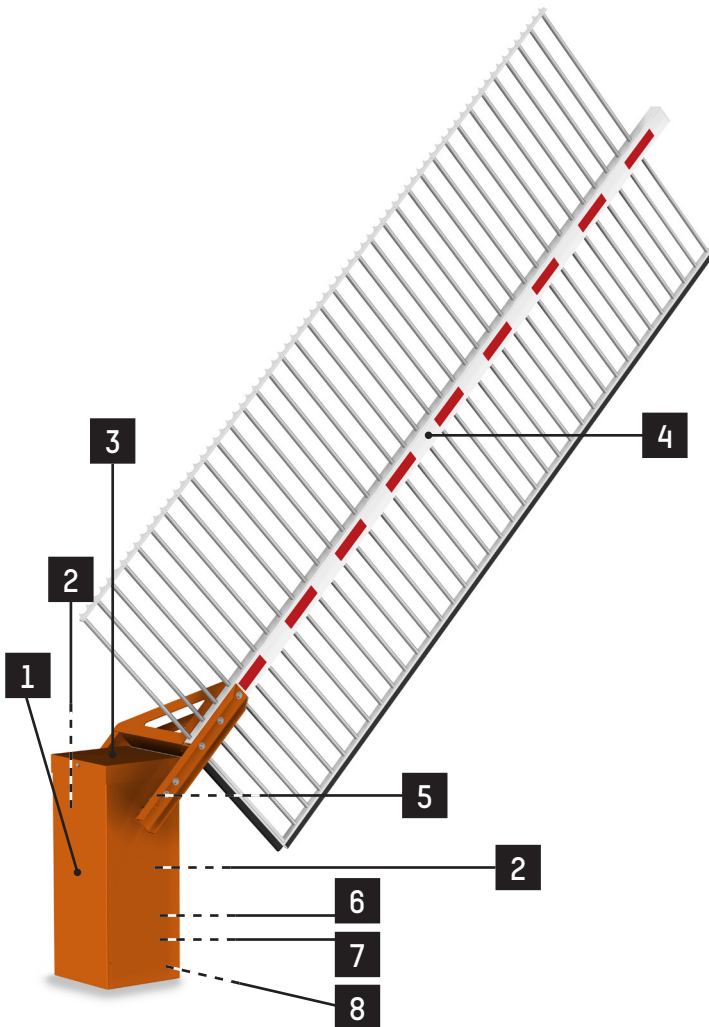


BL 47

Datasheet

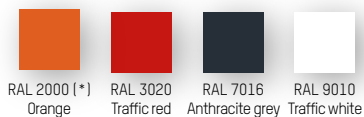
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AUTOMATIC
SYSTEMS



Industrial rising gate secured with rigid fence to control access of vehicles at medium access points for industrial sites, traffic management, etc.

STANDARD RAL COLORS



(*) Standard color. All other colors must be specified when ordering.


Note: These RAL references are available for free.

DESCRIPTION

1. Sheet metal body folded and welded, from 3 to 8 mm thick.
2. Lateral and frontal doors with peripheral sealing joint and lock, ensuring easy access to the mechanism.
3. Removable top cover, with lock and key.
4. Offset rectangular (120 x 80 mm section) aluminium arm, lacquered white with red reflective strips.
The arm is provided in standard with a rigid fence in aluminium with anti-climbing profile (*cockscomb*) and rubber protective profiles.
The rigid fence is composed of aluminium tubes with $\varnothing 25$ mm profile welded on both sides of the arm.
5. Solid arm driving shaft, diameter 50 mm, mounted on 2 lifetime lubricated bearings. The axle exit, centred on the housing, provides for the easy reversal of the barrier model (*arm to the left or to the right side of the housing*), which provides 4 configurations, taking also into account the position of the doors (*see illustration*).
6. Electromechanical assembly:
 - Reversible three-phase asynchronous gear motor, ensuring protection of the mechanism in the event of forced lifting of the arm due to fraudulent action.
 - Secondary transmission on gearwheel and sprocket wheel. Maintaining the arm in its two extreme positions (*open and closed*), as well as after a STOP command, is achieved by means of an electromagnetic brake.
 - Frequency inverter ensuring progressive accelerations and cushioned decelerations, for movement without vibration, direction inversion without jolts (*reopening*) and increased protection of the mechanism.
 - Electronic limitation of the electromechanical assembly torque allowing for the immediate stop of the arm during closing in the event of an obstacle.
 - Inductive limit switches.
 - Balancing of the arm by means of one or more compression springs, depending on the weight of the arm.
 - Lever for manual lifting of the arm (*except for the automatic opening option*).
7. Parameterisable electronic control board allowing for various control options and/or additional accessories.
8. Connecting terminal block on the control board:
 - Providing arm position status (*open or closed*).
 - Providing presence detectors status.
 - Allowing for master-slave control of 2 barriers opposite each other (*movement of one barrier controlled by the other barrier*).
 - ...



STANDARD TECHNICAL SPECIFICATIONS

Electrical power supply	Single-phase 230 VAC - 50/60 Hz + ground. <i>Note: not to be connected to an isolated ground network or a high impedance earthed industrial network.</i>
Consumption	450 W.
Motor	Three-phased asynchronous 250W.
Reversible ring and pinion speed reducer, service factor 1.2.	
Useful arm length (L)	4 or 5 m, resulting in free passage (PL) of 3.35 or 4.35 m respectively.
Ambient operating temperature	Between -20 and +50°C. <i>(Without optional heating)</i>
Tolerated relative humidity	95% without condensation.
Minimum opening/closing time	6 s <i>(Adjustable through the control board).</i>
Net weight (without arm)	300 kg.
MCBF (Mean Cycle Between Failure)	In compliance with recommended maintenance: 3,000,000 cycles.
Noise emitted during operation	<70db(A) (measured at 1 m from the surface of the machinery and at a height of 1.60 m above the ground; according to ISO3744. No hearing protection needed.)
IP	44
	EC compliant.

SURFACE TREATMENTS

- Zinc-coated internal mechanical parts.
- Complete body (housing, base plate, cover and doors): zinc dusting + epoxy structured paint.
Total thickness of the surface treatment exceeds 160 µm.

WORKS TO BE SUPPLIED BY THE CUSTOMER

- Ground installation.
- Power supply.
- Wiring to any external devices.

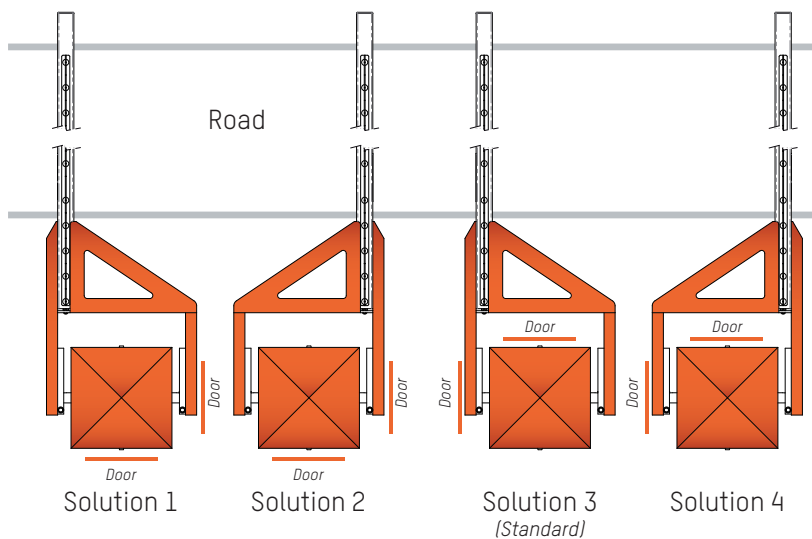
Note: comply with the installation plan (CH6943).

OPTIONAL

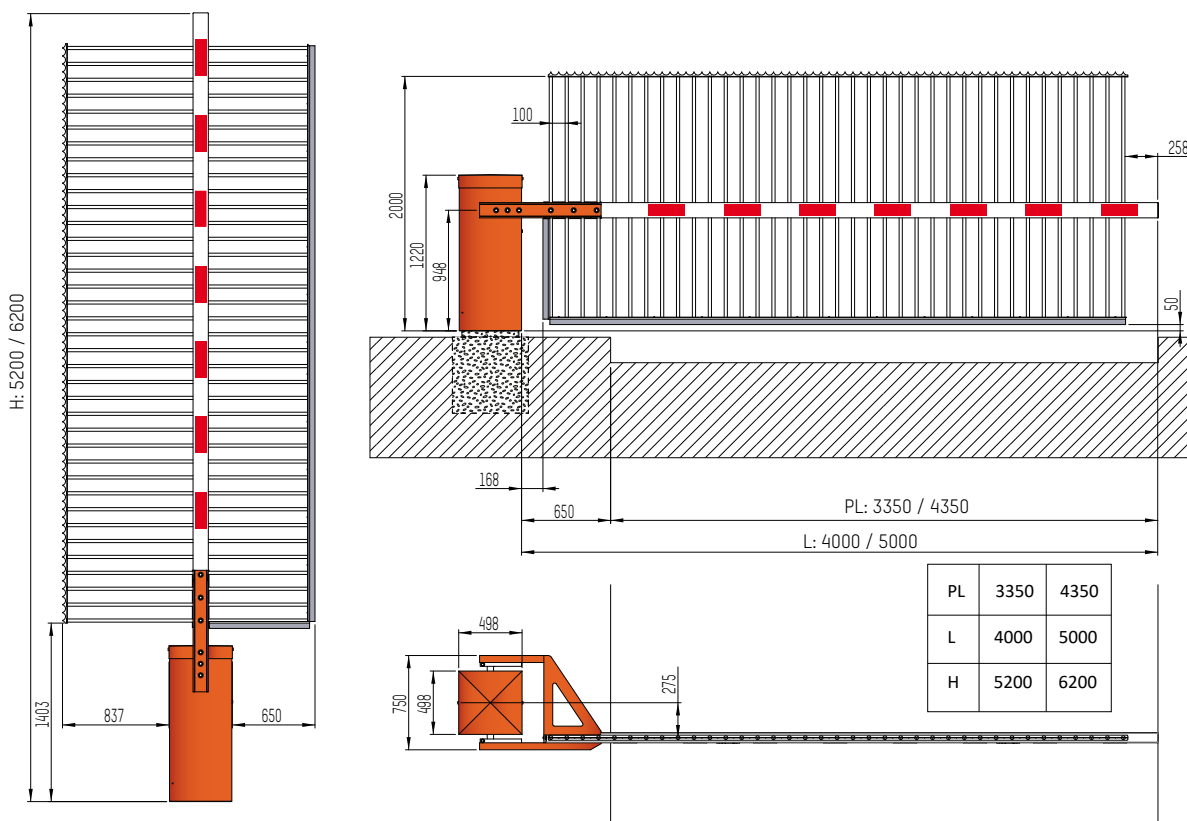
1. Extension of the rigid fence at the end of arm - Upper part.
2. Extension of the rigid fence at the end of arm - Lower part.
3. Automatic opening of the arm during power cuts.
4. Locking of the arm in opened and/or closed position. The reaction in case of power cut (*locked or not*) must be specified when ordering.
5. Double limit switches for information on BL status in the event of power failure.
6. Tip support: fixed height tip, adjustable tip, electromagnetic tip, anti-vandalism tip, anti-vandalism + electromagnetic tip and electrically lockable tip.
7. Hood and door intrusion information (*by dry contact*).
8. Push-button box.
9. Fireman emergency opening - anti-vandalism.
10. Programmable clock (*weekly or yearly*).
11. Lockable switch on housing.
12. Radio transmitter/receiver.
13. Detection loop.
14. Presence detector for inductive loops.
15. Photoelectric cell for opening, closing or automatically stopping the barrier arm.
16. Cell support post.
17. Fixating of the cell.
18. Electronic board for input/output CAN.
19. Totalling counter with reset button.
20. Leds on arm.
21. Traffic lights (*Leds*) - alone or fixed on barrier.
22. Support post for traffic lights.
23. AS1049 card for third-party traffic signs.
24. Acoustic alarm 100 dB (±5) - fixed inside.
25. Aluminium STOP sign with a diameter of 300 mm.
26. LED flashing light on cover for arm movement signalisation.
27. Anti-vandalism belt, preventing the opening of doors and hood.
28. Paint of another RAL colour.
29. Treatment for aggressive saline environment.
(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.
30. Raised base.
31. 120 VAC - 60 Hz power supply.
32. Thermostatic 250 or 500 W heating for operation to -25 or -45°C.

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

CONFIGURATIONS



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

