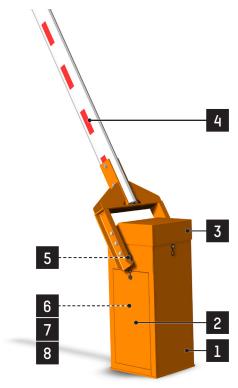
BL 43 Datasheet

Rev. 12 • Update 09/2020





Rapid rising barrier, short- and medium-range with reinforced oval section arm, for installation on public roads: parking, traffic management, etc.

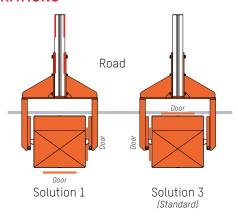
STANDARD RAL COLORS



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

Note: These RAL references are available for free.

CONFIGURATIONS



DESCRIPTION

- 1. Sheet metal body folded and welded, from 3 to 8 mm thick.
- Lateral and frontal doors with peripheral sealing joint and lock, ensuring easy access to the mechanism. Two configurations are possible for their installation (see illustration).
- 3. Removable top cover, with lock and key.
- 4. Central oval reinforced section arm measuring 175×100 mm, in aluminium, white lacquered with red reflective strips.
- 5. Solid driving shaft for the arm, diameter 50 mm, mounted on 2 bearings lubricated for life.
- 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. Parametrisable electronic control board allowing for various control options and/or additional accessories.
- 8. Connecting terminal block on the control board, in order to provide, for example, the status of the presence detectors.

STANDARD TECHNICAL SPECIFICATIONS

Single-phase 230 VAC - 50/60 Hz + ground $^{(1)}$	
450 W	
Three-phased asynchronous 250W	
Reversible ring and pinion speed reducer, service factor 1.2	
2 to 6 m, in increments of 0.5 m	
120 km/h winds	
Between -20 and +50°C (without optional heating)	
95% without condensation	
Adjustable, according to 3 different profiles ^[2] : 1. Standard ^[3] 2. Intermediate ^[4]	
3. Maximum (5)	
230 kg (without arm)	
20 to 30 kg, depending on length and without options	
In compliance with recommended maintenance: 3,000,000 cycles	
<70 db(A) ⁽⁶⁾	
44	
EC compliant	

- (1) Do not connect to an isolated ground network or a high impedance earthed industrial network.
- ^[2] Speed profiles are only available with the AS1620 control logic.
- Standard speed Impact force in accordance with EN 12453.
- [4] Intermediate speed Impact force in accordance with EN 12453 by adding a foam protection under the arm.
- Maximum speed The installer must ensure that the installation complies with the standard, e.g. with dead man's operation.
- (6) Measured at 1 m from the machine surface and at a height of 1.60 m above the floor according to ISO3744. No hearing protection equipment required.

SURFACE TREATMENTS

- Zinc-coated internal mechanical parts.
- Door and cover: stainless steel + structured paint.
- Frame: primer + structured paint.

Total thickness of the surface treatment exceeds 160 um.

WORKS TO BE SUPPLIED BY THE CUSTOMER

- Adapted ground fastening.
- Power supply.
- Wiring towards eventual external peripherals.

 $\underline{\textit{Note:}}\ \textit{comply with the installation plan (CH6943-GB)}.$

OPTIONS

- 1. Folding rigid aluminium skirt ⁽⁷⁾.
- 2. Arm offset on right-hand or left-hand side.
- 3. Kit "impact damping under arm".
- 4. Automatic opening of the arm in case of power failure.
- 5. Arm locking system: open and/or closed position (8).
- 6. Limit switch for info Arm position in case of power failure.
- Tip support: fixed height tip, adjustable tip, electromagnetic tip, anti-vandalism tip, anti-vandalism + electromagnetic tip, folding tip and electrically lockable tip.
- Rotating base with breaker pin in case of impact and report of housing position by dry contact.
- 9. Anti-vandalism belt, protection of the doors and hood.
- 10. Bolt cover to protect arm from vandalism.
- 11. Hood and door intrusion information (by dry contact).
- 12. Push-button box.
- 13. Fireman emergency opening anti-vandalism.
- 14. Programmable clock (weekly or yearly).
- 15. Lockable switch on housing.
- 16. Radio transmitter/receiver.
- 17. Detection loop.
- 18. Presence detector for inductive loops.
- 19. Photoelectric cell for opening, closing or automatically stopping the barrier arm.
- 20. Cell support post.
- 21. Fixating of the cell.
- 22. Ultrasonic detector in housing.
- 23. Human Machine Interface colour screen with keypad.
- 24. Ethernet interface.
- 25. SD memory card.
- 26. Electronic board for input/output CAN.
- 27. Totalizer counter with reset button.
- 28. LED on arm.
- 29. LED traffic lights alone or fixed on barrier.
- 30. Supporting post for traffic lights.
- 31. Electronic board for third-party traffic lights.
- 32. Acoustic alarm 100 dB (±5) fixed inside.
- 33. Aluminium traffic sign (Ø 300 mm).
- 34. LED flashing light on cover for arm movement signalisation.
- 35. Anti vandalism Leds on hood.
- 36. Non standard RAL colour.
- 37. Treatment for aggressive saline environment (9).
- 38. Raised base.
- 39. 120 VAC 60 Hz power supply.
- 40. Thermostatic 250 or 500 W heating for operation to -25 or -45°C.

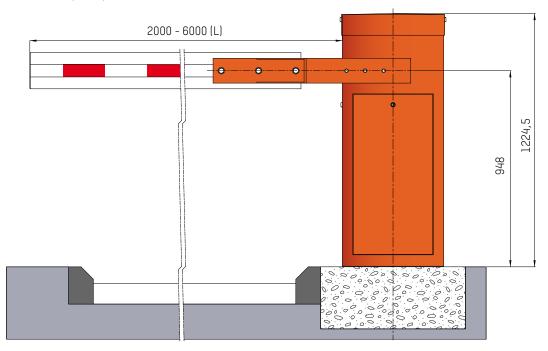
Note: for restrictions on the options, consult the rate table.

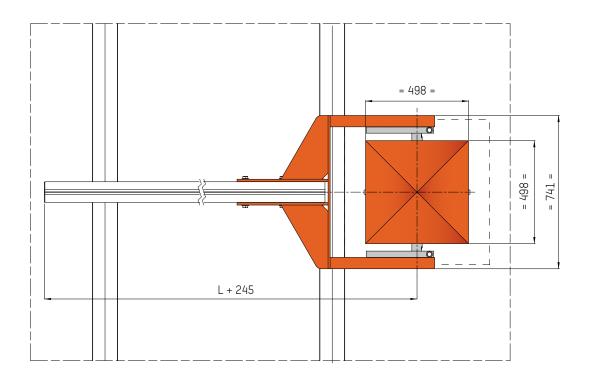
- [7] Requires arm offset option.
- [8] The reaction in case of power cut (locked or not) must be specified when ordering.
- (9) Recommended when the barrier is installed within 10 km of the coast and may be subject to salt attack: sandblasting + Alu Zinc plating 80µm outside (40µm inside) + polyzinc 80µm + 80µm powder paint





STANDARD DIMENSIONS (mm)







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