

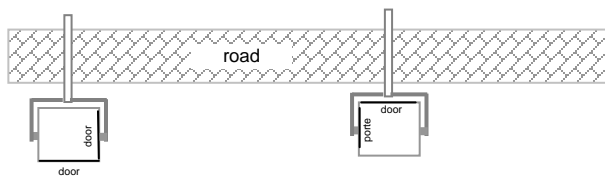


Rapid industrial lifting gate for access control over vehicles at **very wide** access points: industrial sites, traffic management, etc.

Description of standard equipment

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. Two configurations are possible for their installation (see illustration).
3. Removable top cover, with lock and key.
4. Round central aluminium arm, lacquered white with red reflective strips, made up of 2 or 3 segments fitting into each other of a diameter of 100 - 90 - 84 mm if longer than 6 m, and guyed with galvanised steel cables if longer than 7 m.
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 electromechanic 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.
7. Lever for manual lifting of the arm (except for the automatic opening option).
8. Parameterisable AS1320 electronic control board allowing for various control options and/or additional accessories.
9. Connecting terminal block on the control board:
 - Providing status of the arm position (open or closed)
 - Providing status of the presence detectors
 - Allowing for master-slave control of 2 barriers opposite each other (movement of one barrier controlled by the other barrier).
 - ...

Configurations



Solution 1

Solution 3
(standard)

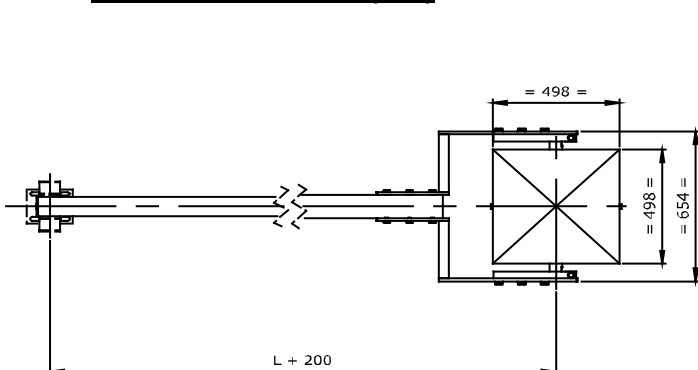
Surface treatments

- Zinc-coated internal mechanical parts.
 - Complete body (housing, base plate, cover and doors): zinc dusting + epoxy structured paint available as standard in different colours:
 - o RAL 2000 – orange (by default)
 - o RAL 3020 – red
 - o RAL 6005 – green
 - o RAL 7016 – anthracite grey
 - o RAL 9007 – aluminium grey
 - o RAL 9010 - white
- Total thickness of the surface treatment exceeds 160 µm.

Standard technical specifications

- Electrical power supply Single-phase 230VAC, 50/60Hz.
(not to be connected to a floating network or to an industrial distribution network with a high impedance earth)
- Nominal Power: 450 W.
- Three-phase 250 W asynchronous motor.
- Reversible ring and pinion speed reducer, service factor 1.2.
- Useful arm length (L): 6 to 12 m, in increments of 0.5 m.
- Operation not hampered by 120 km/h winds.
- Ambient operating temperature: between -20 and +50°C.
- Tolerated relative humidity: 95% without condensation.
- Minimum opening/closing time 3.5 s (adjustable through the control board).
- Net weight (without arm): 230 kg.
- Weight of the arm 20 to 30 kg, depending on length and without options.
- MCBF (Mean Cycle Between Failure), in compliance with recommended maintenance: 1,250,000 cycles.
- IP44.
- EC compliant.

Standard dimensions (mm)



Options

1. Automatic opening of the arm during power cuts.
2. Locking of the arm in opened and/or closed position ^(a).
The reaction in case of power cut (locked or not) must be specified when ordering.
3. Standard tip support.
4. Adjustable tip support.
5. Electro-magnetic tip support ^(b).
6. Electrically lockable tip support ^(b).
7. Articulated tip support.
8. STOP sign with a diameter of 300 mm.
9. LED traffic lights.
10. Traffic lights (LED) fixed on a post on housing.
11. Support post for traffic lights.
12. Push-button box.
13. Lockable switch on housing.
14. Radio transmitter/receiver.
15. Detection loop.
16. Presence detector for inductive loops.
17. Photoelectric cell for opening, closing or automatically stopping the barrier arm.
18. Cell support post.
19. AS1321 input/output extension board.
20. AS1049 board for third-party traffic signs.
21. Thermostatic 250 or 500 W heating for operation to -25 or -45°C.
22. LEDs on arm.
23. Raised base.
24. Paint of another RAL colour.
25. 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.
26. 120 VAC - 60 Hz power supply.
27. Anti-vandalism belt, preventing the opening of doors and hood.
28. Double stretcher, to prevent deformation of the large arms remaining in opened position at rest.
29. Double limit switches for information on BL status in the event of power failure.
30. LED flashing light on cover for arm movement signalisation.
31. Rotating base with breaker pin in case of impact and report of housing position by dry contact.

(a) (b) *mutually incompatible options.*

