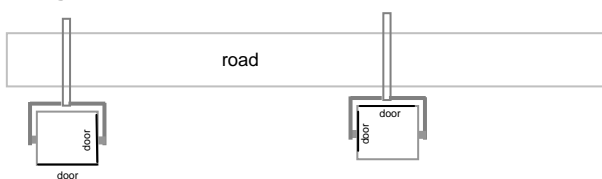


**Long span** rising barrier particularly suitable for secure control of major roads such as bridges, tunnels, level crossings, mountain passes, etc.

## Configurations



Solution 1

Solution 3  
(standard)

## Description of standard equipment

1. Sheet metal body folded and welded, from 3 to 8 mm thick.
2. Side and front doors with peripheral sealing joint and lock, ensuring easy access to the mechanism.
3. Removable top cover, with lock and key.
4. Round aluminium central arm, lacquered white with red class 2 reflective strips <sup>(\*)</sup>,  
**OR**  
Rectangular glass fibre central arm, with a white polyester resin coating with red class 2 reflective strips <sup>(\*)</sup>.
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 during the Stop command, 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.
  - 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 if power cuts.
8. Electronic control board.
9. Rotating base with breaker block in case of impact and report of housing position by floating contacts.

<sup>(\*)</sup> Class 2 according to the French Standard  $\Rightarrow$  high retroreflection coefficient (180 Cd/lux/m<sup>2</sup>)

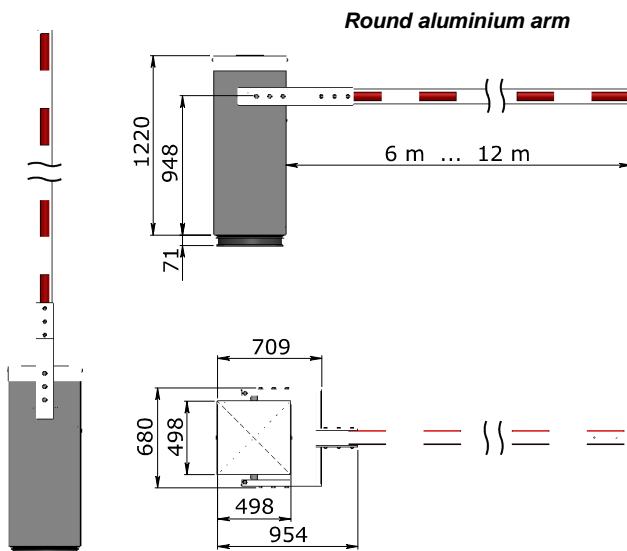
### Surface treatments

- Zinc-coated internal mechanical parts.
- Complete body (housing, base plate, cover and doors): zinc dusting + orange polyester structured paint RAL2000.  
Total thickness of the surface treatment exceeds 160 µm.

### Standard Technical specifications

- Round aluminium arm, length 6 to 12 m by 1m multiples, made up of 2 or 3 segments fitting into each other of a diameter of 100 - 90 - 84 mm and which may be guyed by galvanised steel cables (depending on length or options).  
**OR**  
Rectangular glass fibre arm, 145 x 85 mm, in 2 segments 6 to 10 m in length by 1m multiples.
- Electrical power supply: single-phase 220VAC, 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.
- Operation not hampered by 120 km/h winds.
- Ambient operating temperature between -25 and +60°C.
- Tolerated relative humidity: 95% without condensation.
- Minimum opening/closing time: 3.5 to 8 seconds.
- Net weight (without arm): 250 kg.
- MCBF (Mean Cycle Between Failure), in compliance with recommended maintenance: 5,000,000 cycles.
- IP 44.
- EC compliant.

### Standard dimensions (mm)



### Options

1. Locking of the arm in open position.  
*The desired reaction in case of power cut (locked or not) must be specified when ordering.*
2. Articulated tip support.
3. NO ENTRY sign 450 mm diameter, aluminium and class 2 *(see\* previous page)*.
4. Red LED R24 (220 VAC) signal light, Ø300mm, alone.
5. Red LED R24 (220 VAC) signal light, Ø300mm, fixed on a post on housing.
6. Two orange LED R2 (24 VDC) signal lights, Ø180 mm, on the arm.
7. Push-button switch box(es) for opening, closing or locking the arm.
8. Emergency services box with key switch (French Standard) for opening, closing or locking the arm.
9. Detection loop.
10. Presence detector for inductive loops.
11. Thermostatic 500 W heating for operation down to -45°C.
12. Paint of another RAL colour.
13. Treatment for harsh saline environments *(recommended particularly when the barrier is installed within 10 km of the coast and may be subject to salt attack): sandblasting + Alu Zinc plating 40 µm inside/80µm outside + polyzinc 80 µm + 80 µm powder paint.*
14. Double limit switches by dry contacts for information on barrier status in the event of power failure.
15. Dry contacts to signal opening of one of the 2 doors or the cover.
16. Type G2 siren: 105 dB signal.

### Work to be done by the client

(Comply with the installation plan)

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

