

BL 45

Technical datasheet

BL45-FT-EN-02

Access controlled...
Future secured

DESCRIPTION

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 (BL 45A), lacquered white with red class 2 reflective strips (*)

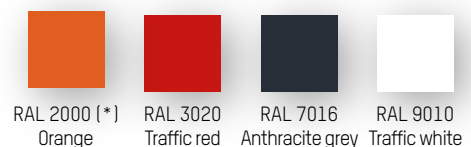
OR

- Rectangular glass fibre central arm (BL 45F), with a white polyester resin coating with red class 2 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 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.

(*) Class 2 according to the French Standard => high retroreflection coefficient (180 Cd/lux/m²)

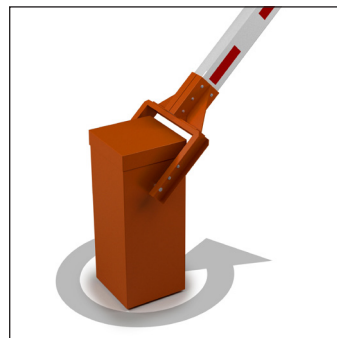
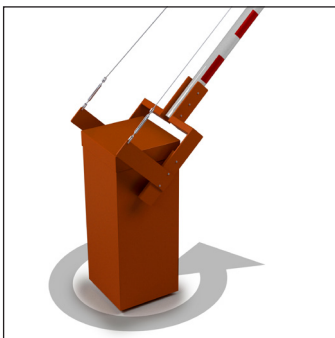
STANDARD RAL COLORS



RAL 2000 (*) Orange
RAL 3020 Traffic red
RAL 7016 Anthracite grey
RAL 9010 Traffic white

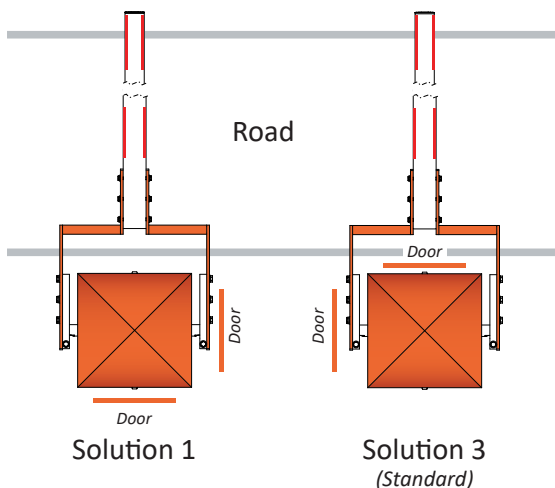
(*) Standard color. All other colors must be specified when ordering.

Note: These RAL references are available for free.



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

CONFIGURATIONS



CARACTERISTIQUES TECHNIQUES STANDARD

Electrical power supply	Single-phase 230 VAC - 50/60 Hz <i>(Not to be connected to a floating network or to an industrial distribution network with a high impedance earth)</i>
Nominal Power	450 W
Motor	Three-phased asynchronous 250W
Reversible ring and pinion speed reducer	
Useful arm length (L)	Round aluminium arm (BL 45A), 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 galvanized steel cables <i>(depending on length or options)</i> OR Rectangular glass fibre arm (BL 45F), 145 x 85 mm, in 2 segments 6 to 10 m in length by 1m multiples
Operation not hampered by 120 km/h winds	
Ambient operating temperature	Between -25 and +60°C <i>(without optional heating)</i>
Tolerated relative humidity	95% without condensation
Minimum opening/closing time	3.5 to 8 s <i>(adjustable through the control board)</i>
Net weight <i>(without arm)</i>	250 kg
MCBF <i>(Mean Cycle Between Failure)</i>	In compliance with recommended maintenance: 3,000,000 cycles
IP	44
CE	CE 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.

OPTIONS

1. Double stretcher - over and under the arm
2. Locking of the arm in open position
The desired reaction in case of power cut (locked or not) must be specified when ordering
3. Double limit switches by dry contacts for information on barrier status in the event of power failure
4. Articulated tip support
5. Hood and door intrusion information *(by dry contact)*
6. Push-button switch box(es) for opening, closing or locking the arm
7. Emergency services box with key switch *(French Standard)* for opening, closing or locking the arm.
8. Detection loop
9. Presence detector for inductive loops
10. Two orange LED R2 (24 VDC) signal lights, Ø180 mm, on the arm
11. Red LED R24 (220 VAC) signal light, Ø300mm - alone or fixed on a post on housing
12. Acoustic alarm 98 dB ±5 (Ø 198), fixed outside - G2 type
13. NO ENTRY sign 450 mm diameter, aluminium and class 2 *(see* previous page)*
14. Paint of another RAL colour
15. 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
16. Thermostatic 500 W heating for operation down to -45°C

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

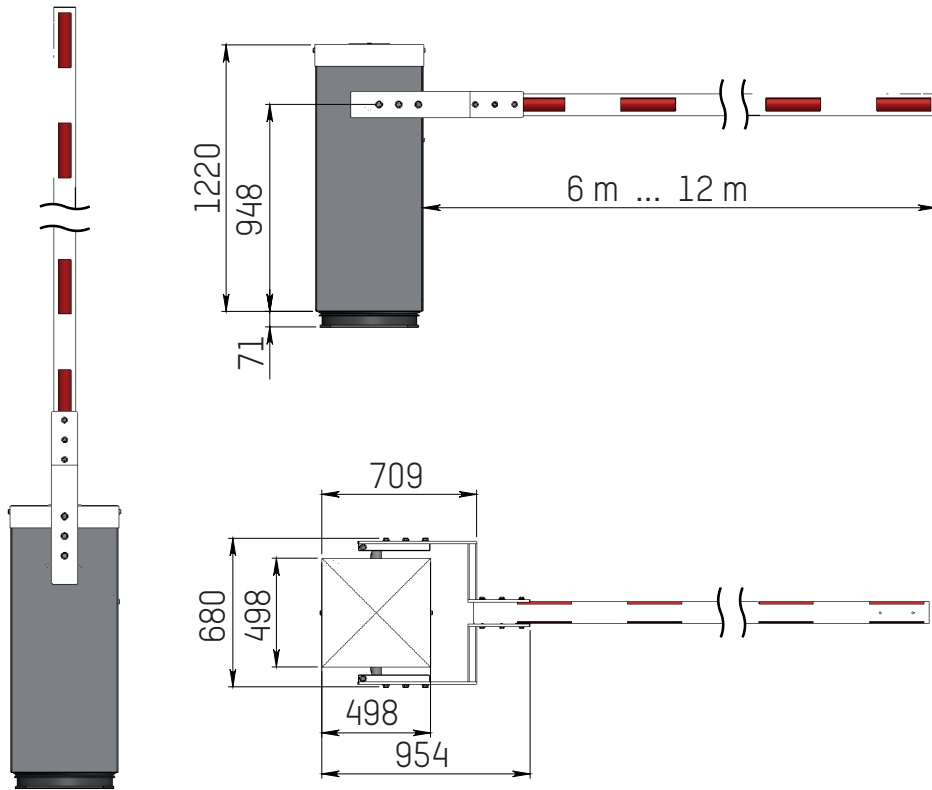
WORKS TO BE SUPPLIED BY THE CUSTOMER

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

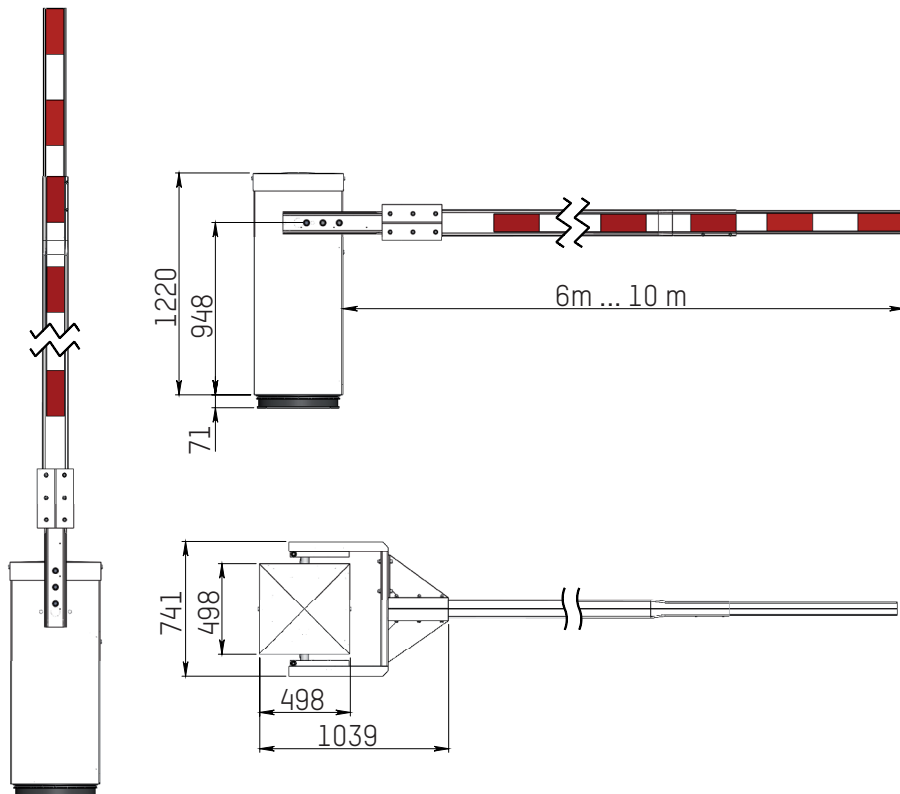
Note: comply with the installation plan (CH6943-GB)

STANDARD DIMENSIONS (mm)

BL 45A - Round aluminium arm



BL 45F - Rectangular glass fibre arm



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