BL 46

Technical datasheet

BL46-FT-EN-10

Access controlled...
Future secured

Rapid industrial lifting gate secured with fence for access control over vehicles at medium and wide access points industrial sites, traffic management, etc.

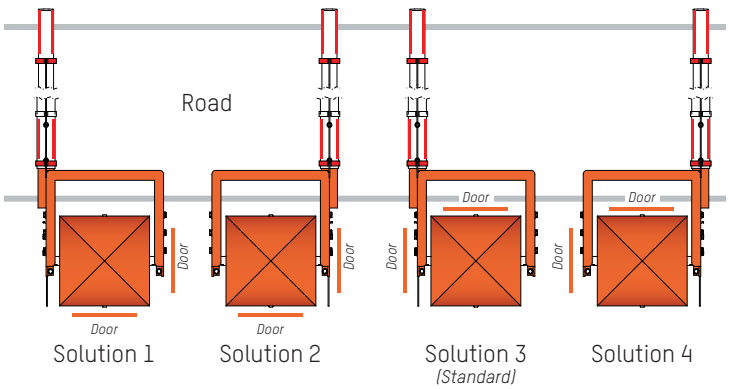
STANDARD RAL COLORS

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

(*) 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.
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. Left/Right round 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 beyond 6 m long, and guyed with galvanised steel cables if longer than 5 m.
5. The arm is mounted with an aluminium folding fence. Solid driving shaft for the arm, diameter 50 mm, mounted on 2 bearings lubricated for life. The axis exit centred on the body allows for the easy inversion of the barrier model (arm to the left or to the right of the housing), which allows for 4 configurations also taking 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 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.
   - 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)*.
   - ...

BL 46

Datasheet
BL46-FT-EN-10

STANDARD TECHNICAL SPECIFICATIONS

Electrical power supply	Single-phase 230 VAC - 50/60 Hz + ground *Note: not to be connected to an isolated ground network or a high impedance earthed industrial network.*
Consumption	450 W
Motor	Three-phased asynchronous 250W
Reversible ring and pinion speed reducer, service factor 1.2	
Useful arm length (L)	3 to 7 m, in increments of 0.5 m
Operation not hampered by 120 km/h winds	
Ambient operating temperature	Between -20 and +50°C *(without optional heating)*
Tolerated relative humidity	95% without condensation
Minimum opening/ closing time	3.5 s *(adjustable through the control board)*
Net weight *(without arm)*	250 kg
MCBF *(Mean Cycle Between Failure)*	in compliance with recommended maintenance: **3,000,000** cycles
IP	44
CE	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-GB).

OPTIONAL

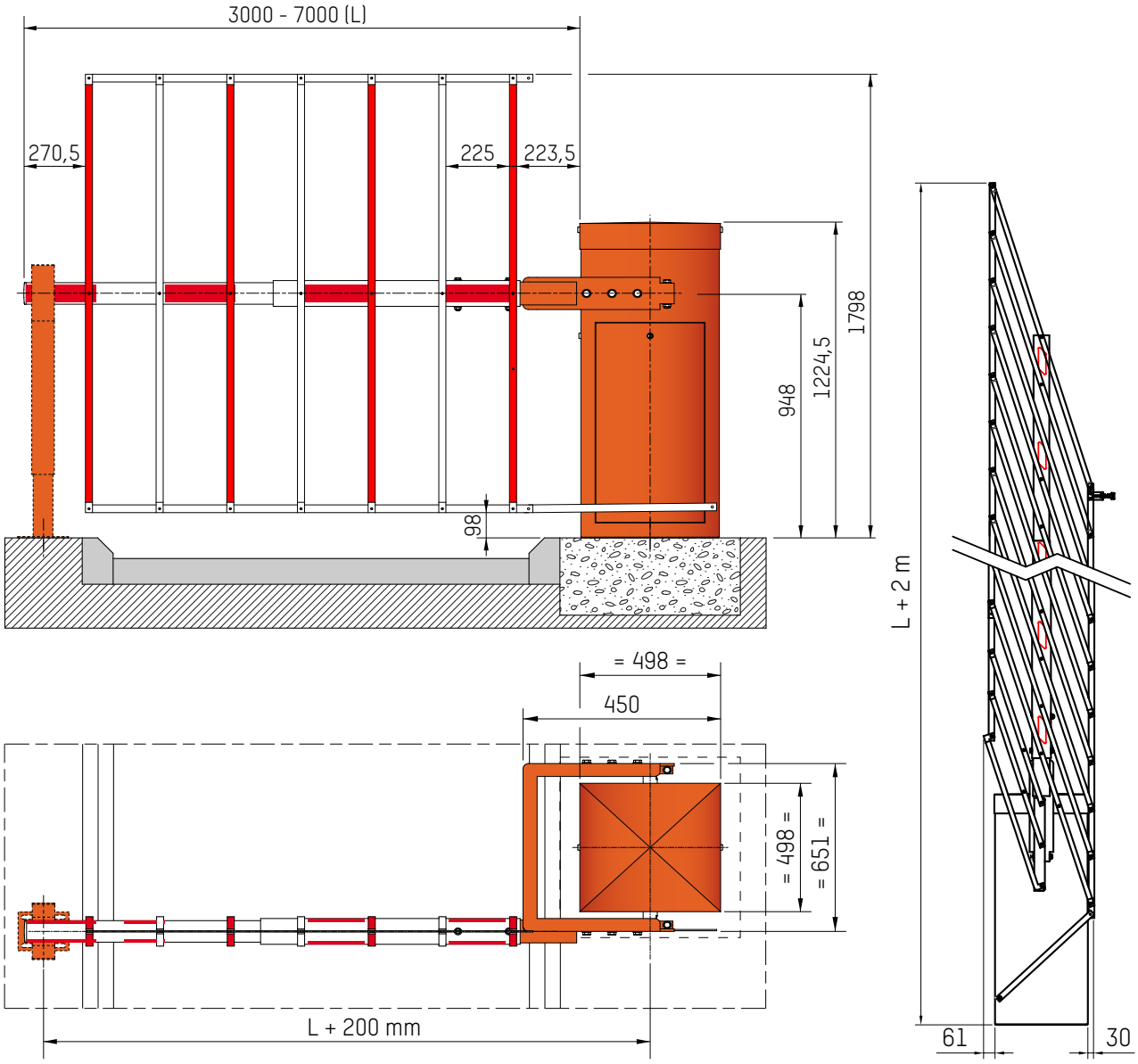
1. Climb-proof section on folding fence *(crest)*
2. Extension of the fence over the barrier housing
3. Automatic opening of the arm during power cuts
4. Locking of the arm in opened and/or closed position. The reaction in case of power cut *(locked or not)* must be specified when ordering.
5. Double limit switches for information on BL status in the event of power failure
6. Tip support: fixed height tip, adjustable tip, electromagnetic tip, antivandalism tip, antivandalism + electromagnetic tip and electrically lockable tip
7. Support leg for fence and aluminum skirt *(if no tip support)*
8. Hood and door intrusion information *(by dry contact)*
9. Push-button box
10. Fireman emergency opening - antivandalism
11. Programmable clock *(weekly or yearly)*
12. Lockable switch on housing
13. Radio transmitter/receiver
14. Detection loop
15. Presence detector for inductive loops
16. Photoelectric cell for opening, closing or automatically stopping the barrier arm
17. Cell support post
18. Fixating of the cell
19. Electronic board for input/output CAN
20. Totaling counter with reset button
21. Leds on arm
22. Traffic lights *(Leds)* - alone or fixed on barrier
23. Support post for traffic lights
24. AS1049 card for third-party traffic signs
25. Acoustic alarm 100 dB (±5) - fixed inside
26. Aluminium STOP sign with a diameter of 300 mm
27. LED flashing light on cover for arm movement signalisation
28. Anti-vandalism belt, preventing the opening of doors and hood
29. Paint of another RAL colour
30. 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.
31. Raised base
32. 120 VAC - 60 Hz power supply
33. Thermostatic 250 or 500 W heating for operation to -25 or -45°C

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

BL 46

Datasheet
BL46-FT-EN-10

STANDARD DIMENSIONS (mm)



International & Headquarters

Automatic Systems SA
5 avenue Mercator
1300 Wavre - Belgique
Tel.: +32.(0)10.23.02.11
Email: sales.asgroup@automatic-systems.com

Belgium

Automatic Systems SA (Bruxelles & Wallonie)
5 avenue Mercator
1300 Wavre - Belgique
Tel.: +32.(0)10.23.02.11
Email: sales.be@automatic-systems.com

Automatic Systems Vlaanderen
Prins Boudewijnlaan 17 Unit 9A
2550 Kontich - België
Tel.: +32.(0)3.870.59.59
Email: sales.be@automatic-systems.com

France

Automatic Systems SAS - Persan
22, rue du 8 mai 1945
95340 Persan – France
Tel.: +33.(0)1.30.28.95.50
Email: sales.fr@automatic-systems.com

Automatic Systems SAS - Suresnes
3 Rue Salomon De Rothschild
92150 Suresnes
Tel.: +33.(0)1.41.11.40.20
Email: sales.fr@automatic-systems.com

Automatic Systems SAS - Lyon
Immeuble Le Québec
685, rue Juliette Récamier
69970 Chaponnay - France
Tel.: +33.(0)1.30.28.95.50
Email: sales.fr@automatic-systems.com

Spain

Automatic Systems Española SAU
Calle Bolivar, n° 24 Portal B 2° D
28045 Madrid - España
Tel.: +34.(0)91.659.07.66
Email: sales.ca@automatic-systems.com

Automatic Systems Española SAU
Calle Vallés, 52-54 - El Prat de Llobregat
08820 Barcelona - España
Tel.: +34.(0)93.478.77.55

Great Britain

Automatic Systems Equipment UK Ltd.
Units 18 - 19 Babbage House
Northampton Science Park
Kings Park Road
Northampton
NN3 6LG - UK
Tel.: +44 (0)16.04.65.42.10
Email: sales.uk@automatic-systems.com

Canada

Automatic Systems America Inc.
4005 Matte blvd., unit D
Brossard J4Y 2P4 - Canada
Tel.: +1 450 659 07 37
Email: sales.nam@automatic-systems.com

United States

Automatic Control Systems Inc.
45 Rockefeller Plaza, suite 2000
New York City, NY 10111 - USA
Tel.: +1 516 944 94 98
E-mail: sales.nam@automatic-systems.com