

RB M40_900

Technical datasheet

RB M40_900-FT-EN-02

Access controlled...

Future secured



The **RB M40_900** Security automatic rising bollard is designed to protect and control access to sites that are susceptible to attempted break-in.

It can be used on any site where it is wished to create an obstacle to traffic without restricting pedestrian access.

In urban environments, it has the advantage of being completely invisible when lowered.

It is also perfect for controlling vehicle access to pedestrian areas.

The security bollards have greater impact resistance than that of the other obstacles in the range (*see technical characteristics below*).

DESCRIPTION OF THE STANDARD EQUIPMENT

1. Mobile safety obstacle consisting of a 15 mm thick steel cylinder.
The obstacle is available in 3 finishes*: painted steel, stainless painted steel or brushed stainless steel.
2. 30 mm thick cast aluminium upper crown.
The upper crown is also available with LED indicator lights (*on the perimeter of the crown*).*
3. 55 mm reflective strip.
4. Mobile obstacle supported on a thick steel section supporting structure.
5. 5 mm thick cast aluminium cover plate.
6. Galvanized sheet steel embedded casing with a normal steel at the top for attaching the obstacle.
7. Mobile obstacle is held vertically and strengthened by means of a thick steel collar connected to the supporting structure and a nylon bush built-in to the obstacle and sliding along the central jack.
8. Synthetic joint.
9. Plunger central hydraulic jack for raising and lowering the obstacle.
Obstacle not fixed to the jack to limit damages caused by small shocks.
10. Hydraulic unit mounted on the supporting structure producing 40 bars to maintain the obstacle in the raised position.
11. Obstacle stopped in raised and lowered positions by mechanical stops.
12. Steel/rubber bearings support the obstacle when in the retracted position, allowing it to withstand the passage of heavy vehicles (*40T - Class Load D400*).
13. Inductive sensors for raised and lowered position status information.
14. Remote microprocessor control board, separated from the obstacle (*10 m of electric cable provided*), dipswitch programming, LEDs display for obstacle status and inputs/outputs used.

* Product configuration to be specified when ordering.

SURFACE PROTECTION

Treatment B

- Shot blasting (SA 2,5);
- Epoxy powder primer (80 µm);
- Polyester powder finishing paint (80 µm).

STANDARD TECHNICAL SPECIFICATION

Impact resistance specifications	
Rated in compliance with:	PAS68:2013V/7500(N3)/64/90 IWA 14-1:2013 V/7200(N3)/64/90 ASTM M40 & DOS K8
Impact resistance <i>(Vehicles type)</i>	3,5 T à 96 km/h 7,5 T à 64 km/h
Impact resistance	1.200.000 joules
Impact resistance <i>(without deformation)</i>	700.000 joules
Power supply:	230 V single phase. <i>(do not connect to a floating network or to high impedance earthed industrial distribution network)</i>
Frequency:	50/60 Hz.
Nominal power:	900 W.
Rising speed:	9 sec.
Lowering speed:	4 sec.
Operating temperature:	-15 to +60°C.
Frequency of use:	2000 operations per day.
MCBF: <i>(Mean Cycles Between Failure)</i>	3.000.000 cycles, respecting the recommended maintenance procedures
Foundation deep:	1600 mm
Weight:	Bollard: 325 kg and Pit: 150 kg
Protection index:	IP 67 for hydraulic components.
Load class	EN124 classe D (400 kN)
Conform to European standards.	

OPTIONAL

1. Upper crown with LEDs flashing indicator lights.
2. Pit in aluzinc or stainless steel AISI304.
3. Metal trap for closing counterframe *(with screws)*.
4. Intermittent audible signal with or without warning given prior to obstacle operation.
5. Painting with ral colors on request of cylinder.
6. Anti-corrosion treatment for cylinder or frame - Metalization.
7. Biodegradable fuchs oil into the hydraulic pump.
8. Additional connection line *(to connect the bollard unit to the control unit) (maximum length: 80 meters)*.
9. Pair of Quick release cable connector - IP68.
10. Heating resistance for operation at a temperature down to -40° C in case of use in areas that are highly exposed to snow or prolonged freezing.
11. Moving cylinder with cover in stainless steel brushed AISI 316.
12. Emergency Fast Opening (EFO: 1,5 s).
13. UPS group 2.4kW – 3kVA for working max 3 RB (10 operations or 1 hour) in case of power failure
14. Feeder/accumulator on control panel to allow lowering command in case of power failure.
15. NO solenoid valve for automatic lowering in case of power failure.
16. Device for manual operation in case of power failure.
17. Kit UP/DOWN to signal position - Up - Down.
18. Alarme kit - 1 status contact high - 1 status contact crown.
19. Floor metallic column for control unit *(Max. 3 or 5 units)*.
20. Heating device for control unit.
21. Traffic light LEDs (RED/GREEN).
22. Post for traffic light.
23. Presence detector for inductive loop.
24. GSM activator for remote control.
25. Weekly or yearly programmer.
26. Additional cables junction box with gel.
27. Pressure gauge (0/60, 0/100 or 0/160 bars) with connection to show the hydraulic pump pressure.
28. Photo-electric cell *(Transmitter/Receiver or Reflex)*.
29. Cell support post.
30. Radio transmitter/receiver.
31. Push button box.
32. High security lock for the control unit.
33. LEDs lighting device and 230V plug inside the control unit.

WORKS TO BE PROVIDED BY THE CUSTOMER

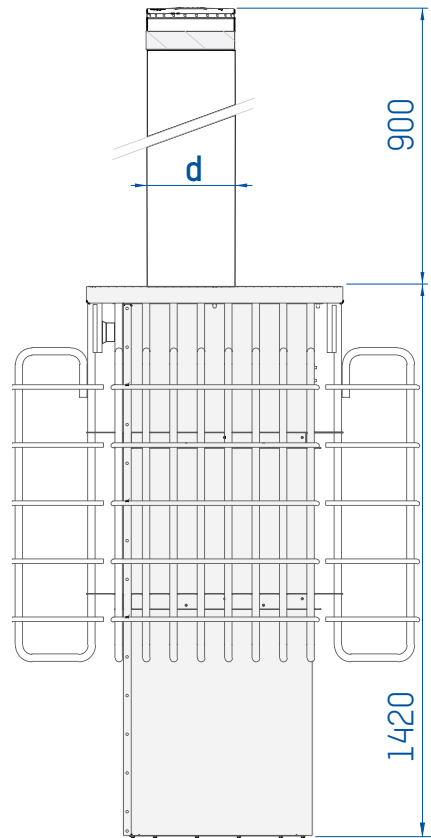
- Embedding casing in a concrete foundation *(refer to installation drawing)*.
- Drainage or connection to mains drainage *(if necessary)*.
- Power supply.
- Electric connections with external peripherals.

RB M40_900

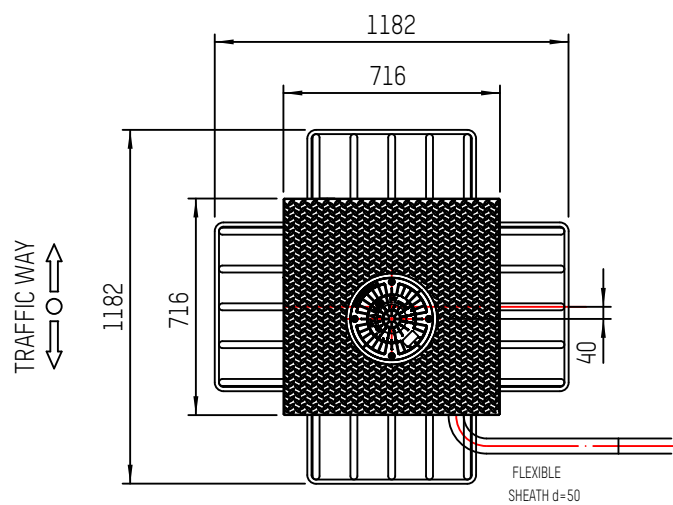
Datasheet
RB M40_900-FT-EN-02



STANDARDS DIMENSIONS (MM)



d	
Steel cylinder	Ø 274 mm
Stainless steel cylinder	Ø 273 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.es@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

Deutschland

Automatic Systems SA

Vertriebsbüro Deutschland
Max-Planck-Straße 7
59423 Unna
Tel.: +49 2303 553 4040

E- Mail: sales.de@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