

RB M30_900

Technical datasheet

RB_M30_900-FT-EN-09

SI **AUTOMATIC**
SYSTEMS

Access controlled...
Future secured

DESCRIPTION OF THE STANDARD EQUIPMENT

1. Mobile safety obstacle consisting of a 10 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, LED display for obstacle status and inputs/outputs used.

* Product configuration to be specified when ordering.



Non contractual picture

The **RB M30_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).

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	
Certified:	PAS68:2013V/7500(N3)/48/90:1.0/2.5 IWA 14-1:2013V/7200(N3C)/48/90:1.0
Rated in compliance with:	ASTM M30 & DOS K4
Impact resistance <i>(Vehicles type)</i>	3,5 T à 64 km/h 7,5 T à 48 km/h
Impact resistance <i>(without deformation)</i>	750.000 joules 250.000 joules
Power supply:	<i>230 V single phase. (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 procedure.
Foundation deep:	1600 mm
Weight:	Bollard: 295 kg and Pit: 150 kg
Protection index:	IP 67 or hydraulic components.
Load class	EN124 classe D (400 kN)
Conform to European standards.	

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.

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 colours on request of cylinder.
6. Anti-corrosion treatment for cylinder and/or frame - Metallization.
7. Biodegradable 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 in stainless steel brushed AISI 316.
12. Emergency Fast Opening *(EFO: 1 ,5s).*
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. Alarm 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.

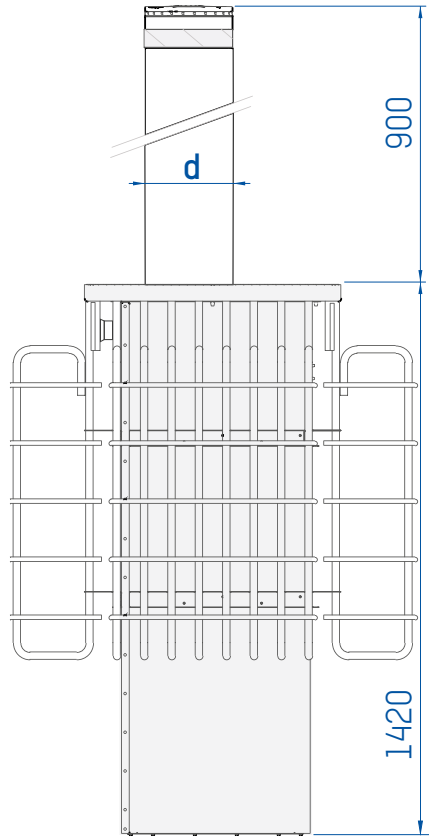
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Datasheet

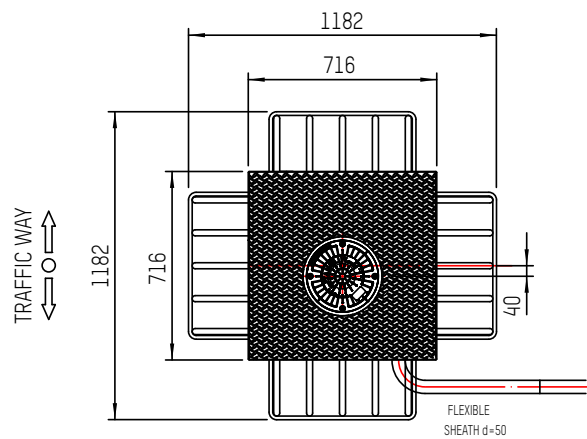
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STANDARD DIMENSIONS (MM)



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Steel cylinder	Ø 274 mm
Stainless steel cylinder	Ø 273 mm



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