

FR M30

Technical datasheet

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(Non contractual illustration)



The **FR M30** High Security fixed removable bollard are generally used to protect sensitive sites.

A fixed removable bollard is a fixed bollard that can be easily moved.

In this way, when it is present, it can ensure the protection function of buildings and sites. And when there is no longer a need for physical protection, it is possible to remove this obstacle, which has negative effects on the circulation and aesthetics of tourist sites.

Requiring a shallow foundation depth, this bollard can be installed anywhere.

A cylinder is not dedicated and attached to a specific base. This allows flexibility in facility management and also reduces investment since it is possible to purchase and install more bases than cylinders.

The bollards are available in two different cylinder heights off the ground:

- **FR M30_700** : 700mm
- **FR M30_900** : 900mm

DESCRIPTION

1. Removable obstacle with a diameter of 273 mm and a cylinder thickness of 10 mm.
The obstacle is available in 3 finishes*: powder coated steel, powder coated stainless steel or brushed stainless steel (standard powder coat colour: anthracite grey).
2. 30 mm thick casted powder coated aluminium upper crown. The upper crown is also available with LED lighting strip on the perimeter of the crown; flashing with or without warning before movement of the neighbouring terminal*.
3. 55 mm reflective strip with Automatic Systems logo.
4. Locking/unlocking system.
5. Adjustment bases (4) for anchoring in the ground.
6. Reinforced cover plate.

* Product configuration to be specified when ordering.



STANDARD TECHNICAL SPECIFICATIONS

Impacts resistance certifications:		
FR M30_700		
Rated in compliance with	PAS68:2013 V/7500(N3)/48/90 IWA 14-1:2013 V/7200(N3C)/48/90 ASTM M30 & DOS K4	
FR M30_900		
Crash tested	PAS68:2013 V/7500(N3)/48/90:-0.95 IWA 14-1:2013 V/7200(N3C)/48/90:-0.67 ASTM M30 C730/P1	
Breakout resistance (type of vehicles)	3.5T at 64 km/h 7.5T at 48 km/h	
Breakout resistance	750.000 joules	
Impact resistance (without deformation)	100.000 joules	
	FR M30_700	FR M30_900
Obstacle height	700 mm	900 mm
Cylinder diameter	273 mm	
Foundation dimensions	800 x 800 mm	2000 x 1200 mm
Foundation depth	500 mm	500 mm
Cylinder weight	78 kg	92 kg
Basement weight	117 kg	
Ambient operating temperature	-40°C +70°C	
IP rating	IP 67	
Load class	D400	
Complies with European standards		

WORKS TO BE PROVIDED BY THE CUSTOMER

- Sealing of the frame in a concrete foundation.
- Drainage or connection to main drainage.
- Power supply (if LED lighting strip configuration is required).

Note: Follow the installation plan.

OPTIONS

FOUNDATION BOX

- Ground fitting to be fixed into the ground (in powder coated steel), with round metal cover plate to close the basement.
- Ground fitting to be fixed into the ground with lighting strips (in powder coated steel), with round metal cover plate to close the basement.
- Square cover plate (for aesthetic floor finish similar to automatic bollards) with kit of anchors for chemical fixation.
- Additional cylinder cover head.

AESTHETICS

- Finely structured matt powder coating (any RAL colour on request) of cylinder.
- Cylinder in brushed stainless steel AISI 316 instead of AISI 304.
- Anti-corrosion marine treatment for ground fitting (in powder coated steel). ⓘ
- Anti-corrosion marine treatment for bollard cylinder. ⓘ

CONTROL

- Lighting strip power supply (max 8 units).

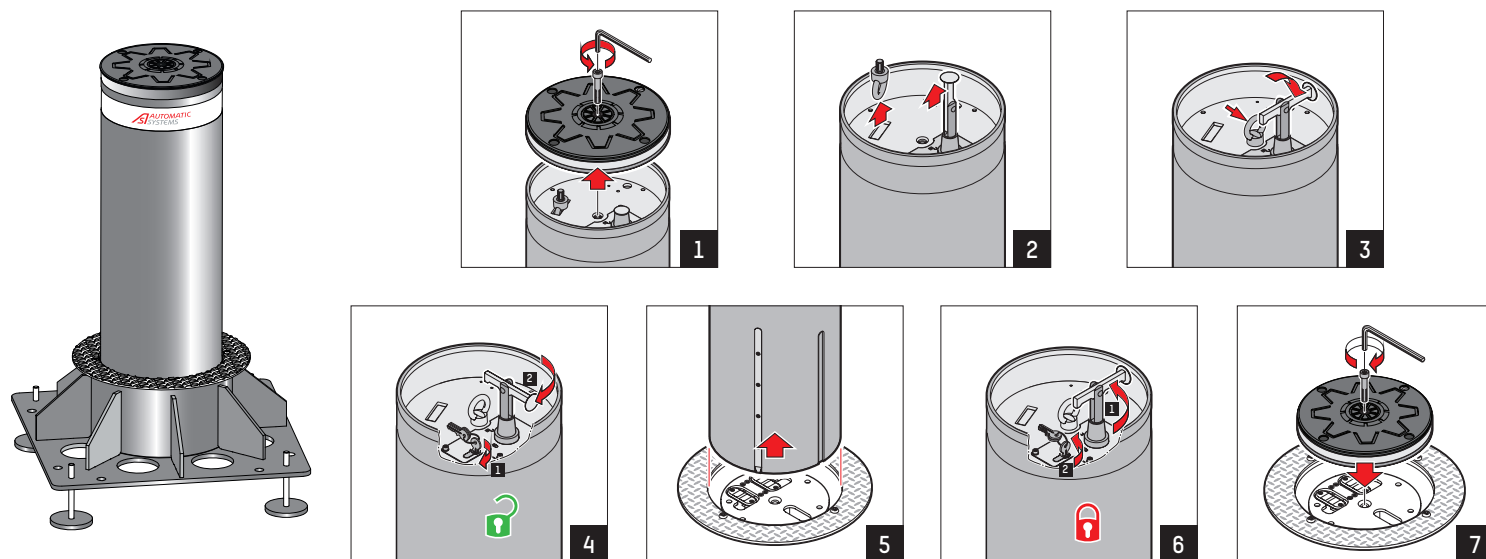
OTHER OPTIONS

- Additional EuroLock key.
- EuroLock profile with identical keys on several bollards.

ⓘ Recommended for installations less than 3 km away from the sea or for location where de-icing salt is sprayed in the winter time.

Note: For restrictions on options, please contact us.

OPERATING PRINCIPLE



STANDARD DIMENSIONS (MM)

