Citadine

ELECTRIC RETRACTABLE BOLLARD

The Citadine is an electromechanical automatic retractable bollard designed and patented by BES. Its innovative design gives it unparalleled performance; it can easily withstands repeated impacts from vehicles and sustained use. It is mainly used for access control in urban settings. Citadine allows priority access to be given to pedestrians, and enables traffic flow management and security at the boundaries of sensitive or strategic sites.

256 mm

AUTOMATIC

IMPACT RESISTANCE

INTRUSION RESISTANCE

Vehicle of 3,5 tons at 70 km/h

Vehicle of 3,5 tons at 121 km/h

INTENSIVE USE

CAR PARKS

SENSITIVE SITES

HIGH STRENGTH

PEDESTRIAN AREAS



ADVANTAGES

Service continuity after impact



Unique BES design: double casing + driving system
The bollard remains
functional after an impact or seven several repeated impacts without needing intervention.

High performance

Tireless motorization: able to provide a large number of daily movements, **up to 9000 movements per day**.

Easy to maintain

Access to the drive without dismantling the bollard and intervention performed by a single technician. Few wearing part to change.

Ideal for pedestrian safety

Adjustable speed enables gradual lifting so as not to surprise pedestrians.



LIFETIME

5 YEARS

Bollard casing, cylindrical bollard and cover against any deformation during the service life of installation.

Drive, transmission and spare parts.

4	BOLLARD STEEL Thickness 20 mm
MOTORIZATION COMPARTMENT	BOLLARD COVER WITH BRUSH SEAL STEEL Thickness 15 mm
STAINLESS STEEL DRIVEN CHAIN against corrosion	BOLLARD BASE Reinforcement rings 20 mm Better impact resistance
MOTORIZATION CASING STEEL Thickness 5 mm	BOLLARD CASING STEEL Thickness 5 mm Among the thickest on the market
High strength	
A	HEIGHT Also in 700 mm

 B
 WIDTH
 480 mm

 C
 LENGTH
 940 mm

 D
 DEPTH
 1050 mm

 Ø
 DIAMETER
 256 mm

*Impact resistance (kJ) corresponds to the maximum impact enery that the bollard is able to absorb without major deformation while guaranteeing continuity of operation after an impact: the vehicle will be stopped dead. Intrusion resistance corresponds to the breaking threshold leading to the partial or total destruction of the bollard: the vehicle will be stopped without exceeding 3 m of distance after the bollard. ** See Terms and Conditions.

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TECHNICAL CHARACTERISTICS

Brushless motor from industrial robotics	INNOVATIVE PATENTED	
230 V – 750 W – IP67	TECHNOLOGY	
Fail-safe position		
·		
the bollard is maintained in the high position if power is lost.		
Adjustable in both directions I Take less than 3 seconds		
Rising and lowering speed less than 1,5 second (option)		
Torque adjustable from 0 to 200 kg		
(dynamic and static)		
-25°C / +70°C		
Replaceable finishing stainless steel sleeve : polished or powder- choice	Replaceable finishing stainless steel sleeve : polished or powder-coated RAL of choice	
	Fail-safe position the bollard goes down if the power is lost Fail-secure position (option) the bollard is maintained in the high position if power is lost. Adjustable in both directions I Take less than 3 seconds Rising and lowering speed less than 1,5 second (option) Torque adjustable from 0 to 200 kg (dynamic and static) -25°C / +70°C Replaceable finishing stainless steel sleeve: polished or powder-	

INSTALLATION & MAINTENANCE



EASY AND DURABLE

Delivered full assembled, tested and ready to be installed.

We recommend sealing the Citadine in fibre-reinforced concrete: approximate volume 1,7 m³ and concrete dosage: 350 kg/m³

SIMPLIFIED AND MINIMIZED MAINTENANCE

Maintenance can be performed by a single technician without lifting equipment and without dismantling the bollard. Replacement of only 2 wearing parts once a year: the brush seal and the reflective strip (depending on use).

ANNUAL PREVENTIVE MAINTENANCE

Cleaning and checking the main components of the bollard (transmission chain tension, bollard alignment, casing seal etc.)













108 rue du grenache -Zac du Tourail Coustellet 84460 Maubec France

STANDARD EQUIPMENT

- Stainless steel cap
- Reflective strip
- Replaceable finishing sleeve
- Crown with LEDs
- 3 adjustable feet

OPTIONS

- Customised sleeve
- Choice of RAL
- Heating resistance
- Audible alarm

OPERATION

Connects to an access control box or pillar.

CONTROL EQUIPMENT

Badge, card, remote control, mobile phone, call button, fireservice, license plate reading camera etc...

