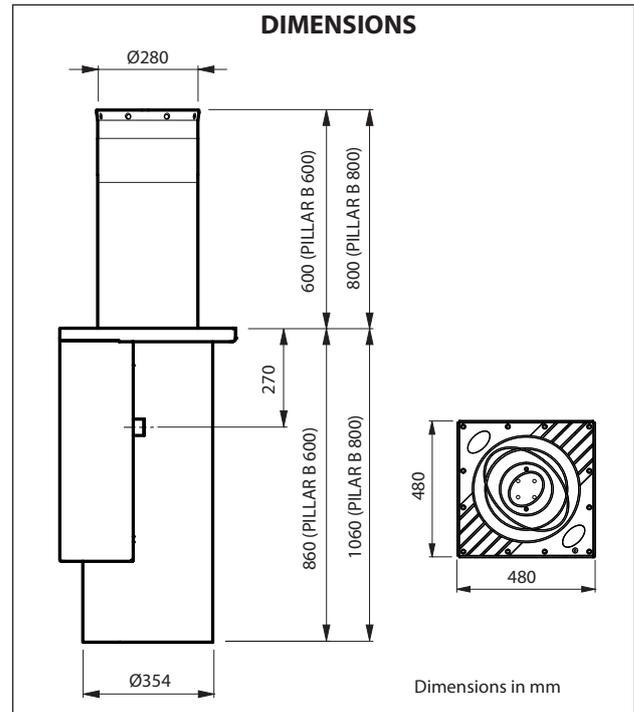


PRODUCT DATASHEET

PILLAR B

Automatic hydraulic bollard

Suitable for installation to protect sensitive places (ministries, barracks, airports, access to buildings of particular importance). Designed in two versions.



- **Automatic hydraulic bollard with high resistance, for intensive use**
- Independent hydraulic pump for each bollard, access for simplified servicing, protection anti-tampering switch sensor (option)
- Break-in resistance: **250 000 J**
- Work time: **5,0 s** for PILLAR B 275/600; **6,5 s** for PILLAR B 275/800
- Max operating frequency: up to **3 000 op./day**
- MCBF: **3 000 000 cycles**
- Sensors for bollard positions: fully up (PERSEO CBD) and fully retracted (PERSEO CBD, PERSEO CBE)
- Obstacle sensing, configurable (with/without movement inversion)
- Bollard top cover with led lights and buzzer
- Interfaces for remote control (only PERSEO CBD)
- in case of power loss:
 - Standard version: bollard will open.
Electrical emergency unit for maintaining high stem (optional)
 - Security version: bollard will stay up.
Lower the bollard by means of a solenoid valve which is accessible from the ground flange.

REFERENCE STANDARDS

- 2004/108/CEE; 93/68/CEE (EN55014-1; EN55014-2) • Electromagnetic Compatibility
- 2006/95/CEE; 93/68/CEE (EN60335-1(2002)) • Low voltage
- 2006/42/CEE (EN60204-1) • Machinery directive
- 99/5/CEE (ETSI EN 301 489-3 (2002) + ETSI EN 301 498-1 (2005); ETSI EN 300 220-2 (2006)) • Radio set (tested with the electronic control unit PERSEO CBD or PERSEO CBE)

TECHNICAL-ENVIRONMENTAL MAIN FEATURES	
Driven rod out of the ground	PILLAR B 275/600: Ø273 x h.600 mm (± 3 mm) x th. 6mm steel Fe 360 (S 235 JR) * PILLAR B 275/800: Ø273 x h.800 mm (± 3 mm) x th. 6mm steel Fe 360 (S 235 JR) *
Buried structure	PILLAR B 275/600: Ø354 x h.860 mm; PILLAR B 275/800: Ø354 x h.1060 mm
Foundation	Concrete
Excavation	~1000x1000x1400mm
Break-in resistance	250 000 J
Driven rod treatment	Cataphoresis and coating RAL7015 standard, other colour on request
Passive visibility	Reflective film H=100 mm **
Flange	Cast iron, cataphoresis black
Top cover	Cast iron, cataphoresis black
Actuator	Hydraulic
Power	230 Vac ±10%, 50-60 Hz
Working time	PILLAR B 275/600: 5.0 s (50 Hz); PILLAR B 275/800: 6.5 s (50 Hz)
Working temperature	-40°C *** +60°C
Operating humidity	up to 100%
IP grade	IP67
Hand operation	Interrupting the power off: - Standard version: bollard will open. - Security version: bollard will stay up. Lower the bollard by means of a solenoid valve which is accessible from the ground flange.
Weight including packaging	PILLAR B 275/600: 136Kg; PILLAR B 275/800: 150Kg

* option, AISI304 or AISI316

** Customizable (optional)

*** With integrated heater active

ELECTRICAL FEATURES	
Control unit	PERSEO CBD or PERSEO CBE
Power	1-phase 230 Vac ±10%, 50-60 Hz (115 Vac with optional adapter)
IP grade	IP54
Working temperature	-40°C +60°C
Operating humidity	up to 95%, non condensing
Use	Max. 4 for each control unit. Parallel control wiring possible for driving many groups of bollards.
Power absorbed	0.50 kW for each bollard
Signalling (optional)	On the top with high intensity LEDs, and buzzer
Sensors	Open passage, Close passage (PERSEO CBE), Overpressure/Obstacle, Antitampering switch (option)
Local/Remote control	· Digital inputs · Radio remote control · RS485, TCP/IP (option, PERSEO CBE only)

For system composition and installation refer to the regulations in force in the country where the system is being installed.

ITEM SPECIFICATION

Automatic hydraulic bollard with high resistance. Available in two sizes:

- Ø273xh.600xth.6mm, steel Fe 360 (S 235 JR). Break-in resistance up to 250 000 Joules. Work time 5 s. IP67. Working temperature up to -40°C +60°C. Electric power 1-phase 230 Vac ±10%, 50-60 Hz. Control unit with integrated heating circuit. Max. 4 bollard for each control unit, with possibility parallel control wiring for driving many groups of bollards. Power consumption 0.50 kW for each bollard. Hydraulic pump located under the flange. Obstacle sensing, adjustable (with/without movement inversion). Designed in two versions:

1) Standard: bollard will open in case of power loss;

2) Security: bollard will stay up even in case of power loss. Lower the bollard by means of a solenoid valve which is accessible from the ground flange.

- Ø273xh.800xth.6mm, steel Fe 360 (S 235 JR). Break-in resistance up to 250 000 Joules. Work time 6.5 s. IP67. Working temperature up to -40°C +60°C. Electric power 1-phase 230 Vac ±10%, 50-60 Hz. Control unit with integrated heating circuit. Max. 4 bollard for each control unit, with possibility parallel control wiring for driving many groups of bollards. Power consumption 0.50 kW for each bollard. Hydraulic pump located under the flange. Obstacle sensing, adjustable (with/without movement inversion). Designed in two versions:

1) Standard: bollard will open in case of power loss;

2) Security: bollard will stay up even in case of power loss. Lower the bollard by means of a solenoid valve which is accessible from the ground flange.



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