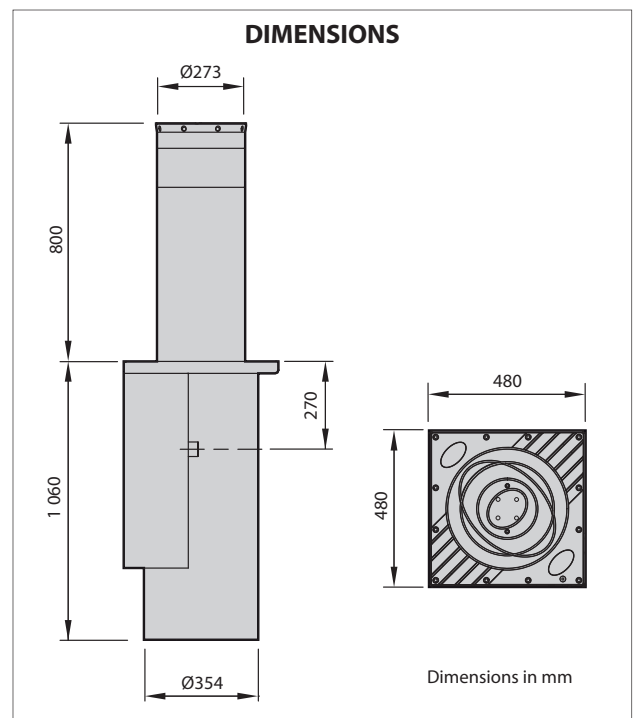


PILLAR B 275/800.10C

High security automatic hydraulic bollard

K4 equivalent antiterrorism bollard, based on dynamic simulation carried out by accredited third-party Laboratory to international standards PAS68:2010, with rating 7500/50/N2, comparable to ASTM2656:2007 M30 (substitute DoS/DoD K4)

Independent hydraulic pump for each bollard, access for simplified servicing. If a control unit fails, the other bollards remain in operation, simplifying maintenance operations.



- Automatic hydraulic bollard with high resistance, for intensive use.
- Available in two versions:
 - **STANDARD**: in case of power failure, the rod automatically moves down;
 - **SAFETY (SCT)**: in case of power failure, the rod does not move down and keeps the passage closed; the descent command is issued manually, by opening the safety valve that can be accessed from the flange.
- Sensors for bollard positions: fully up and fully retracted.
- Obstacle sensing, configurable (with/without movement inversion).
- Bollard top cover with led lights and buzzer.
- Interfaces for remote control (RS485 - TCP/IP, optional).

TECHNICAL SPECIFICATIONS

Stem diameter	273 mm
Stem height	800 mm
Stem thickness	10 mm
Rise time	~ 6,8 s (50 Hz)
Lowering time	~ 4,1 s
EFO rise time	/
Break-in resistance	667 000 J
Impact resistance	40 000 J
Max operating frequency	up to 2 000 op./day
MCBF	3 000 000 cycles
Hydraulic pump	Integrated
Emergency unlocking	STD version: power cut-off SCT version: manual operation
Type of material	Fe 360 (S 235 JR) *
Treatment	Cataphoresis, standard RAL7015 painting, other colours available upon request
Weight	189 kg
Actuator lubrication	Biodegradable oil
Top cover	Aluminium, cataphoresis black
Visibility active	High intensity LEDs and buzzer, on the top cover
Visibility passive	Reflective white film H=100 mm **
Flange (included)	Cast iron, cataphoresis black 480 x 480 mm
Control unit	PERSEO CBE
Power supply voltage	1-phase 230 Vac ±10%, 50-60 Hz (115 Vac with optional adapter)
Motor voltage	230 Vac ±10%, 50-60 Hz
Power consumption, max	0.60 kW for each bollard
Power consumption, idle	28 W
Bollard degree of protection	IP67
Control unit degree of protection	IP55
Working temperature	-40°C *** +60°C
Operating humidity	up to 95%, non condensing
Controllable bollards	Max. 4 for each control unit; parallel control wiring possible for driving many groups of bollards
Sensors	- Open passage / bollard down - Closed passage / bollard up - Overpressure/Obstacle
Local/Remote control	- Digital inputs - Radio remote control (transmitter optional)
Max. n° of remotes that can be memorized	2 048
Foundation	1 200 x 1 200 x h. 1 400mm

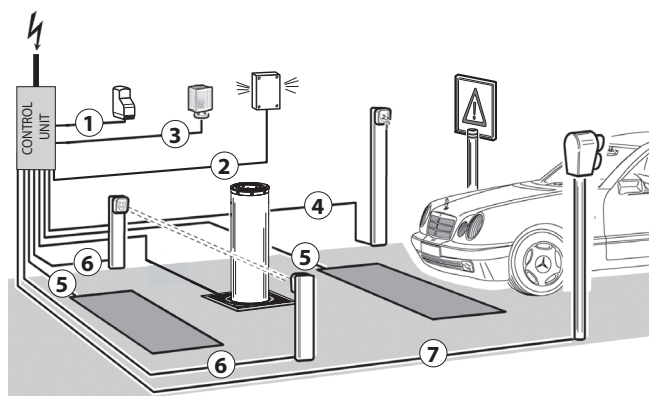
(*) = Option, AISI316

(**) = Customizable (optional)

(***) = With integrated heater active

SAMPLE INSTALLATION

For the system composition and installation please refer to the laws in force in the country where the equipment is installed.



ACCESSORIES

- Anti-tampering sensor
- TCP/IP interface module
- RS485 serial interface module
- Receiver (1)
- Switchboard with emergency button
- Emergency vehicle siren detector (2)
- Flashing indicator (3)
- Key selector (4)
- Metal mass detector
- Magnetic coil for metal mass detection (5)
- Photocells with steerable infra-red beam (6)
- Certified traffic light unit (7)

REFERENCE STANDARDS

PAS68:2010 with rating 7500/50/N2 comparable to ASTM2656:2007 M30 (substitute DoS/DoD K4)

2014/35/UE (EN 60335-1:2012; EN 60335-1/A11:2014; EN 60335-2-103:2015) Low voltage

2014/30/UE (EN 61000-6-3:2007; EN 61000-6-2:2005; EN 6100-6-3/A1:2011) Electromagnetic Compatibility

2014/53/UE (ETSI EN 301 489-3 + ETSI EN 301 489-1; ETSI EN 300 220-2) Radio Equipment Directive (tested with the electronic control unit PERSEO CBE)

ITEM SPECIFICATION

High security automatic hydraulic bollard, K4 equivalent, based on dynamic simulation carried out by accredited third-party Laboratory, to international standard PAS68:2010, with rating 7500/50/N2, comparable to ASTM2656:2007 M30. Rod dimensions: Ø273 x 800 x th. 10 mm, steel Fe 360 (S 235 JR) Break-in resistance up to 667 000 Joules. Standard rise time ~ 6.8 s. Lowering time ~ 4.1 s. IP67. Operating ambient temperature from -40°C to +60°C. Power supply 1-phase 230 VAC ± 10%, 50-60 Hz. Control unit compatible with RS485 and TCP/IP. Max. 4 bollards for each control unit, with possibility of parallel control wiring to drive many groups of bollards. Max power consumption 0.60 kW for each bollard. Independent hydraulic pump for each bollard. Obstacle detection, configurable (with/without movement inversion). Available 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. the descent command is issued manually by means of a solenoid valve which is accessible from the ground flange.

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