

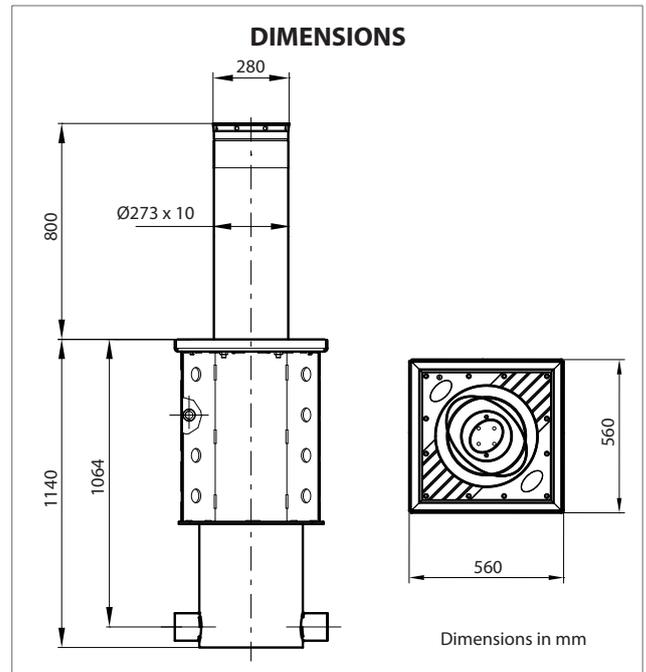


## PRODUCT DATASHEET

# XPASS B 275/800

Anti-terrorism automatic hydraulic bollard

K4 equivalent antiterrorism bollard, based on dynamic simulation carried out by accredited third-party Laboratory to international standards ASTM2656:2007 M30 - PAS68:2010 7500/50/N2



- **Automatic hydraulic bollard anti-terrorism protection guaranteed even with SINGLE bollard**
- Independent hydraulic pump for each bollard, access for simplified servicing, protection anti-tampering switch sensor (option)
- Break-in resistance: **667 000 J**
- Work time: rise time: **≤ 7.0 s**; lowering time: **4.0 s**
- Max operating frequency: up to **2 000 op./day**
- MCBF: **3 000 000 cycles**
- Sensors for bollard positions: fully up (PERSEO CBE) 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 CBE)
- 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

PAS68:2010 7500/50/N2

ASTM2656:2007 M30 (sostituisce DoS/DoD K4)

Machinery directive/Low voltage/Electromagnetic Compatibility

Radio set (tested with the electronic control unit PERSEO CBD O PERSEO CBE)

TECHNICAL-ENVIRONMENTAL MAIN FEATURES	
Driven rod out of the ground	Ø280 x h.800 mm (± 3 mm) x th. 10mm, steel Fe 510 (S 335 JR) *
Buried structure	560 x 560 x h.1140 mm
Foundation	Reinforced concrete
Excavation	~1000x1000x1400mm
Break-in resistance	667 000 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	rise time: ≤ 7.0 s (50 Hz); lowering time: 4.0 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	~260Kg

\* 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	0.55 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

Anti-terror automatic hydraulic bollard K4 equivalent, based on dynamic simulation carried out by accredited third-party Laboratory to international standards ASTM2656:2007 M30 - PAS68:2010 7500/50/N2. Protection guaranteed even with single bollard. Rod dimensions: Ø280x800xth.10mm, steel Fe 510 (S 335 JR). Break-in resistance up to 667 000 Joules. Standard rise time ≤7.0 sec. Lowering time 4.0 sec. IP67. Operating ambient temperature up to -40°C +60°C. Power 1-phase 230 VAC ± 10%, 50-60 Hz. Control unit compatible with RS485 and TCP/IP. Max. 4 bollard for each control unit, with possibility of parallel control wiring to drive many groups of bollards. Power consumption 0.55kW for each bollard. Independent hydraulic pump for each bollard: in case of pump failure, the other bollards keep working. Easy access to hydraulic pump for simplified service. 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. It is possible to lower the bollard by means of a security mechanical key. Lower the bollard by means of a solenoid valve which is accessible from the ground flange.