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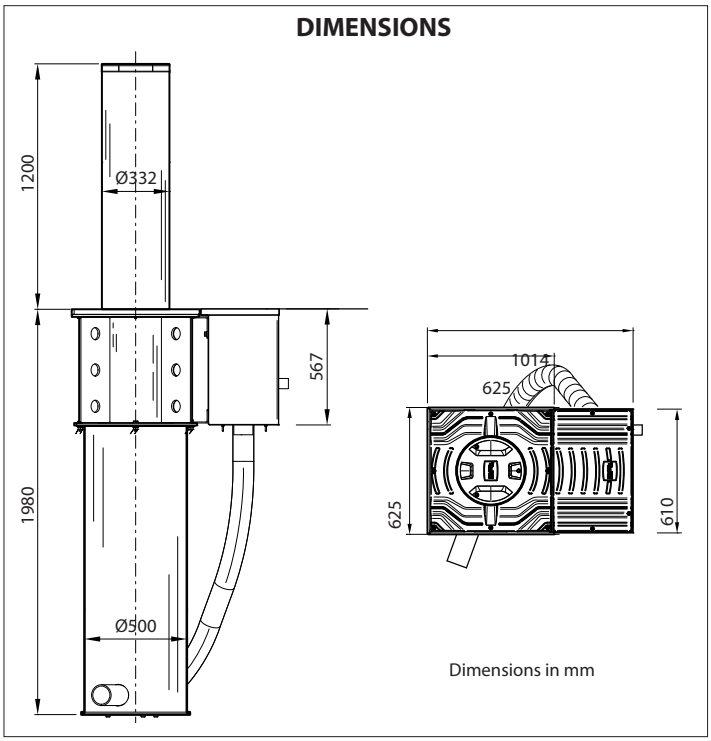
PRODUCT DATASHEET

XPASS B 1200C

Anti-terrorism automatic hydraulic bollard

Crash-tested and certified by accredited third-party Laboratory according to IWA14-1:2013 V/7200[N3C]/80/90, equivalent to PAS68:2010 7500/80/N3 and ASTM2656:2007 M50 (ex K12, SINGLE bollard)



- **Automatic hydraulic bollard anti-terrorism protection guaranteed even with SINGLE bollard**
- Indipendent hydraulic pump for each bollard, access for simplified servicing, protection anti-tampering switch sensor (option)
- Break-in resistance: **2 100 000 J**
- Work time: rise time: **≤ 5.3 s** (to 25 °C ambient temperature)
  lowering time: **4.0 s** (factory adjusted, on-field adjustable)
- Max operating frequency: up to **2 000 op./day**
- MCBF: **3 000 000 cycles**
- Sensors for bollard positions: fully up (PERSEO CBD and PERSEO CBE) and fully retracted (only PERSO CBE)
- Obstacle sensing, configurable (with/without movement inversion)
- Bollard top cover with led lights and buzzer
- Interfaces for remote control (only PERSEO CBE)
- Optional ECD model for faster "Emergency" rising time (**1.5 s**)
- Bollard will stay up even in case of power loss. It is possible to lower the bollard by means.

REFERENCE STANDARDS

IWA14-1:2013 V/7200[N3C]/80/90; PAS68:2010 7500/80/N3
ASTM2656:2007 M50 (replaces DoS/DoD K12)
European Machine Directive/European Low Voltage Directive/European EMC Directive
Radio set (tested with the electronic control unit PERSEO CBD and PERSEO CBE)

TECHNICAL-ENVIRONMENTAL MAIN FEATURES	
Driven rod out of the ground	Ø330 x h.1 200 mm (± 3 mm) x th.25mm steel Fe 510 (S 355 JR) *
Buried structure	625 x 625 x h.1140 mm + 610 x 390 x h.567 mm
Foundation	Reinforced concrete
Excavation	~1500x1500x2000mm
Break-in resistance	2 100 000 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 double, separated for hydraulic pump access
Top cover	Cast iron, cataphoresis black
Actuator	Hydraulic
Power	230 Vac ±10%, 50-60 Hz
Working time	rise time: ≤ 5.3 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	Bollard will stay up even in case of power loss. It is possible to lower the bollard by means.
Weight including packaging	~650 Kg

* 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. 2 for each control unit. Parallel control wiring possible for driving many groups of bollards.
Power absorbed	1.55 kW for each bollard
Signalling (optional)	On the top with high intensity LEDs, and buzzer
Sensors	Open passage, Close passage, Overpressure/Obstacle, Antitampering switch (option)
Local/Remote control	· Digital inputs · Radio remote control · RS485, TCP/IP (only PERSEO CBE, optional)

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. Crash-tested and certified by accredited third-party laboratory according to IWA14-1:2013 V/7200[N3C]/80/90, equivalent to PAS68:2010 7500/80/N3 and ASTM2656:2007 M50 (ex K12, SINGLE bollard). Corresponding to European Machine Directive/European Low Voltage Directive/European EMC Directive. Rod dimensions: 1200x330xth.25mm, steel Fe 510 (S 355 JR). Break-in resistance: 2 100 000 J. Standard rising time: ≤ 5.3 s and lowering time: 4.0 s. IP67. Operating ambient temperature up to -40°C +60°C. Power 1-phase 230 Vac ± 10%, 50-60Hz. Control unit compatible with TCP/IP and RS485. Max 2 for each control unit, parallel control wiring possible for driving many groups. Power consumption 1.55 kW for each bollard. Bollard will stay up even in case of power loss. It is possible to lower the bollard by means. Independent hydraulic pump for each bollard: in case of pump failure, the other bollards keep working. Easy access to hydraulic pump for simplified servicing, with anti-tampering switch.

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