

Security Systems

HRB-HS-CT CRASH TESTED HYDRAULIC BOLLARD | **HRB-HS-CT**

Optima HRB-HS-CT Series crash-tested retractable bollards are designed for high-security vehicle entrances, military, industrial, governmental and commercial buildings or streets which are closed to vehicle traffic between certain hours of the day. Even though the attack is from high tonnage vehicles with high speeds, it is not possible for the vehicle to keep on moving because of the damage given to the front, wheels and the bottom of the vehicle. HRB-HS-CT series designed to PAS68:2013 V7500[N3]/80/90 standards. The actual crash test is conducted in TRL Institute, UK.



SYSTEM FEATURES

MODEL	HRB-HS-CT
Raise and Lower Times	3-5 seconds (Emergency Fast Operation (EFO): 1.5 with charged accumulator)
Bollard Height	1100 mm
Bollard Diameter	355 mm
Power Failure	Manual hand pump
Material	Carbon steel Core with AISI 316 Stainless Steel Sleeve
Motor Protection	Thermic breaker
Electric Motors Drive	With contactor
Operating Pressure	50-140 bar
Control Electronics	Optima Control Card

Keyboards

Desktop Keyboard

Coolers or Heaters

Optional cooling or heating fan inside the hydraulic power unit

Environmental Conditions and Power Requirements

Between -15°C and +65°C, 95% non-condensing humidity; 380V, 3 phase, 50-60 Hz (or 220V/440V/etc, three phase, 50-60 Hz, optional by transformer)

ACCESSORIES

Accessories marked with () are optional.*

- SCADA or any control system: It is possible to change and check the position of barrier with touch screen control panel *
- Safety photocell *
- Stand and casing for safety photocell *
- Dual vehicle safety loop detector *
- Uninterrupted power supply (UPS) *
- Red/green traffic lights with steel pole *
- Led Flashing light on top of bollard *
- Protective construction(tubular) around drive unit *
- Optima Cloud. To control barrier by mobile devices (ios-android), computer, etc. *
- DC motor and pump with dry batteries *
- Wrong direction alarm *
- High speed alarm *
- Remote Control (Up / Down / Emergency Stop- Emergency Raise) *
- Heavy duty submersible drainage pump *
- Hydraulic accumulator *
- Transformer to convert the power *

BODY MEASUREMENTS

SIDE VIEW FOR UP AND DOWN POSITION

