



## GENERAL VIEW OF PRB



## GENERAL DESCRIPTION

Optima PRB pneumatic 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. If there is a threat of vehicle attack in addition to the control of vehicle access in high-security applications, pneumatic road bollards can be used. 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.

## STEEL STRUCTURE

The raising section of the standard bollard diameter is 219 mm (options are available). The standard raised height is 80 cm. The lower and upper heights are available. The road surface area is covered by the aluminium steel flange. In lowered position bollard withstand 50 tons of vehicle axle loads. All the machine elements forming the bollards are corrosion resistant. Therefore formation of rust is prevented. Carbon steel bollard core surrounded by 3mm thick AISI 316 grade stainless steel sleeve which has a vertical satin finish.



## POWER UNIT COMPRESSOR AND CONTROL ELECTRONICS

A compressor with a storage tank is standard in all PRB series. Control electronics utilized in pneumatic road bollard is PLC controlled. Two keyboards with emergency stop are standard; one desktop, other being integrated into the pneumatic power unit. The motor is driven by a contactor and protected by a thermic breaker. The low current voltage required by the system is supplied by a switch-mode power supply. All the cables running in the system are color-coded and numbered to ease tracking.

## ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

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).

## OPTIONAL ACCESSORIES

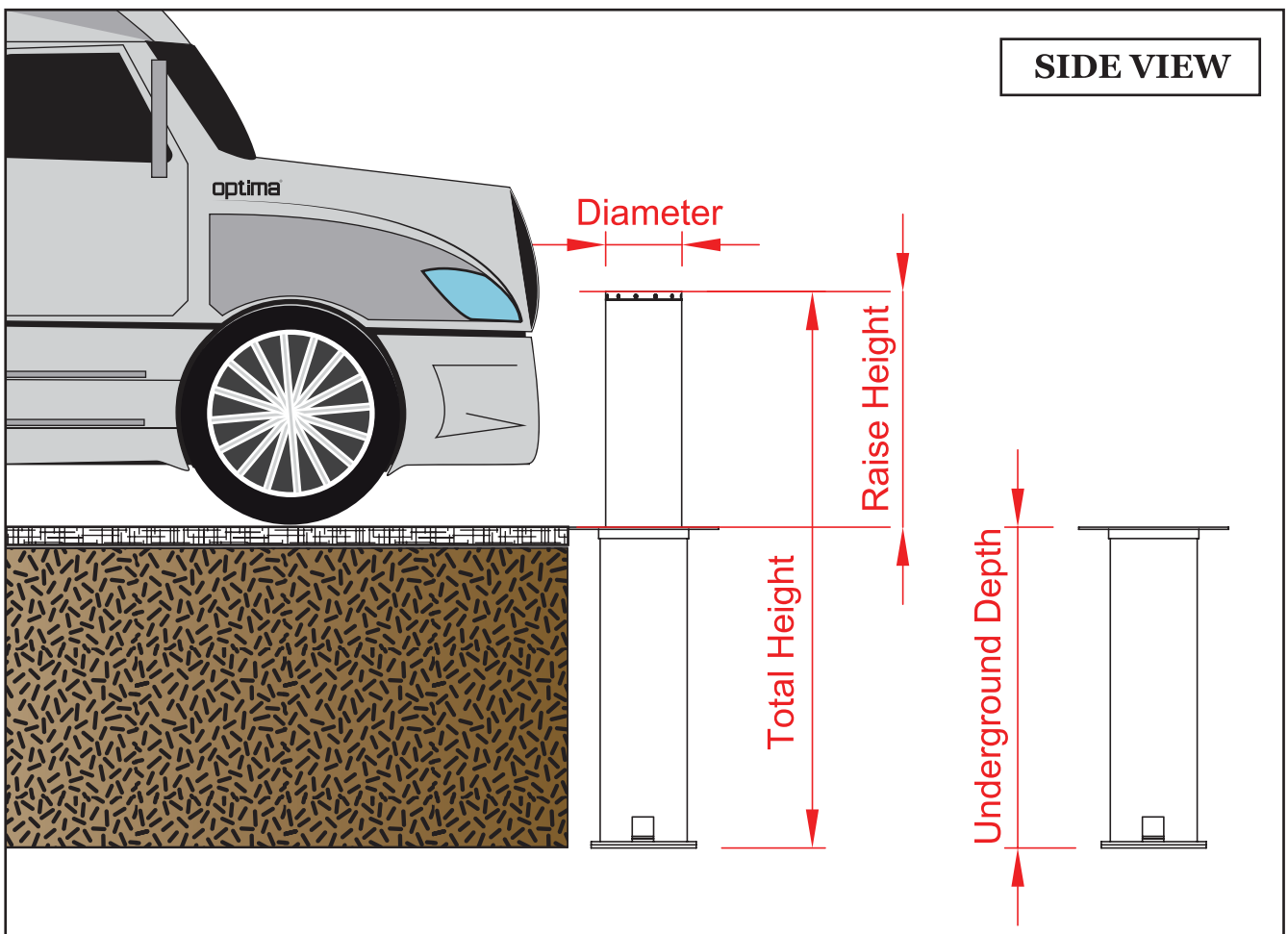
- ⇨ Red/green traffic lights with steel pole.
- ⇨ Safety photocell.
- ⇨ Stand and casing for safety photocell.
- ⇨ Dual vehicle safety loop detector.
- ⇨ Protective construction(tubular) around drive unit.
- ⇨ Transformer to convert the power.
- ⇨ Uninterrupted power supply (UPS).
- ⇨ Submersible drainage pump.
- ⇨ Wrong way alarm.
- ⇨ High speed alarm.



## MODELS

- ↳ Raised Height : From 400mm to 1000mm.
- ↳ Groups : From 1 bollard to 6 bollards per pneumatic power unit.
- ↳ Diameter: 168-219-273-324-355mm.

## MAIN BODY MEASUREMENTS AND FOUNDATION



Loc 1: Antelias, Seaside, SSS Bldg, beside AISHTI.  
Loc 2: Bchamoun, Behind Louise Wegmann, SSS Bldg.

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