



VLB

GENERAL DESCRIPTION

Lift barriers are designed especially for entrances where there is a threat of suicide vehicle attack, or for the entrances that have high-level security requirements. If there is a threat of vehicle attack in addition to the control of vehicle access in high-level security applications, lift barriers are one of the best and most secure solutions. Optima VLB Series Vertical Lift Barriers are K12 crash rated. The compliance with the K12 crash rating can be shown through computerized finite element analysis.

HYDRAULIC POWER UNIT AND CONTROL ELECTRONICS

All the hydraulic components are tested at 250 bars although normal operating pressure is around 60-110 bars. Manuel hand pump is standard in Lift Barriers, therefore in case of power failure, it is possible to raise and lower the barrier by a manual hand pump. The hydraulic cylinder has cushions at both ends. Cooler fan or heater can be integrated inside the cabinet optionally. Optima barriers are controlled with the help of PLC. 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. A traffic light can be integrated into the barrier to prevent accidents. The lights change state automatically depending on the barrier position. In addition to this, radio control receiver, transmitter, and antenna, safety photocell, loop detectors, flashing lights, card reader, etc. can be integrated into the system easily.

ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

Between -15°C and $+65^{\circ}\text{C}$, 95% non-condensing humidity; 380V, 3 phases, 50-60 Hz (or 220V/440V/etc., three phase, 50-60 Hz, optional by transformer).

OPTIONAL ACCESSORIES

- ⇒ Push button box.
- ⇒ Red/green traffic lights with steel pole.
- ⇒ Flashing light (flashes while the arm is in motion).
- ⇒ Safety photocell.
- ⇒ Stand and casing for safety photocell.
- ⇒ Dual vehicle safety loop detector.
- ⇒ Protective construction(tubular) around drive unit.
- ⇒ Uninterrupted power supply (UPS).
- ⇒ Transformer to convert the power.
- ⇒ Wrong way alarm.
- ⇒ High speed alarm.
- ⇒ Stop sign in the middle of aluminum barrier arm.
- ⇒ Different color options.
- ⇒ Hot dip galvanizing.
- ⇒ SCADA or any control system: It is possible to change and check the position of barrier with touch screen control panel, mobile devices (ios-android), computer, etc.

MAIN BODY MEASUREMENTS

