

# GENERAL VIEW OF HRR-HS



## GENERAL DESCRIPTION

Optima HRR-HS electro-mechanical road blockers are designed especially for entrance points which have a threat of vehicle attack or for the ones that have high-security requirements. If there is a threat of vehicle attack in addition to the control of vehicle access in high-security applications, road blockers are the unique solution and the most secure systems. Even though the attack is from high tonnage vehicles with high speeds, the vehicle can't keep on moving because of the damage given to front, wheels and the bottom of the vehicle.

The drive unit is electro-mechanical, but in case of power failure, road blocker can be lowered or lifted manually with the help of a UPS, Typical raise/lower time is 5-6 seconds. With the help of Optima PLC (programmable logic control), raise/lower function can be achieved by every kind of card readers, biometric readers like fingerprint or hand shape, radio control, on/off key switch, etc. Besides, safety accessories like inductive loop detectors, flashing lights or red/green traffic lights can be integrated into the system very easily. The electromechanical power unit can be used in HRR-HS-CT & HRR-HS-4100 road blocker.



## SECURITY SYSTEMS | HRR-HS Electro-Mechanical Road Blockers

### STEEL STRUCTURE

The electro-mechanical Roadblocker withstands a minimum of 50 tons of load per axle. The steel structure is sandblasted or can be hot-dip galvanized optional. Standard color is RAL1028 traffic yellow / RAL9005 black.

### ELECTRO-MECHANICAL POWER UNIT AND CONTROL ELECTRONICS

All the electro-mechanical components are to IP67 standard. Control electronics utilized in electro-mechanical road blocker is Optima PLC Two keyboards are standard; one desktop, other being integrated with the power unit. The motor is driven by a contractor and protected by a thermic breaker. The low current voltage required by the system is supplied by a switch-mode power supply. There is a fuse for every component in the system.

### ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

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

### OPTIONAL ACCESSORIES

- ⇒ Red/green traffic lights with a steel pole.
- ⇒ Flashing lights in front of the road blocker.
- ⇒ Dual vehicle safety loop detector.
- ⇒ Protective construction(tubular) around the drive unit.
- ⇒ Transformer to convert the power.
- ⇒ Submersible drainage pump.
- ⇒ Wrong way alarm.
- ⇒ High-speed alarm.
- ⇒ Different colors.
- ⇒ Hot dip galvanizing.
- ⇒ SCADA or any control system: It is possible to change and check the position of road blocker with touch screen control panel, mobile devices (ios-android), computer, etc.



## SECURITY SYSTEMS | HRR-HS Electro-Mechanical Road Blockers

### MODELS

- ⇒ Raised height: From 400-800mm, for HRR-HS-CT: 110mm/ for HRR-HS-4100: 100mm.
- ⇒ Width: From 2000 to 6000mm.

### MAIN BODY MEASUREMENTS AND FOUNDATION

