Başkent Organize Sanayi Bölgesi
19. Cadde No: 62 Malıköy 06909
Sincan / ANKARA TÜRKİYE

optima@optima.tc

www.optima.tc

+90 312 815 15 00

+90 312 815 12 98

GENERAL VIEW OF HRR-HS-CT

GENERAL DESCRIPTON

Optima HRR-HS-CT series crash tested road blockers are designed especially for entrance points that 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, crash-tested road blockers are the unique solution and one of 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.

Optima HRR-HS-CT road blockers are crash tested and certified PAS68: V/7500[N3]/80/90:0.0/6.15 (This means that M50-P1 "zero penetration" according to American standard which is equivalent to ASTM F2656-07 standard). The drive unit is electro-hydraulic, but in case of power failure road blocker can be lowered or lifted manually with the help of hand pump. With the help of Optima PLC, 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.

Başkent Organize Sanayi Bölgesi
19. Cadde No: 62 Malıköy 06909
Sincan / ANKARA TÜRKİYE

optima@optima.tc

www.optima.tc

+90 312 815 15 00

+90 312 815 12 98

STEEL STRUCTURE

The main mechanical elements forming the construction are heavy-duty 10 mm top plate and the frame consisting of strong metal sheet & plate. This sophisticated mechanical design enables the road blocker to withstand a minimum of 50 tons of axle loads, besides, in a case of a crash, linkage bars transmit the impact directly to the foundation, therefore help to protect the steel structure. Steel construction can be sandblasted or hot dip galvanized (upon request) The standard color is RAL1028 yellow / RAL9005 black.

HYDRAULIC POWER UNIT AND CONTROL ELECTRONICS

Normal operating pressure is around 80-120 bars. Coolers or heaters are can be integrated to the hydraulic power unit as an option. Control electronics utilized in hydraulic road blocker is Optima PLC Controller. Two keyboards with emergency stop are standard; one desktop, other being integrated into the hydraulic power unit.

ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

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

INCLUDED ACCESSORIES

- Red/green traffic lights with a steel pole.
- Dual vehicle safety loop detector.

MODELS

- Raised height: 1100mm.
- Width: 1500mm-6000mm.

Başkent Organize Sanayi Bölgesi
19. Cadde No: 62 Malıköy 06909
Sincan / ANKARA TÜRKİYE

optima@optima.tc

www.optima.tc

+90 312 815 15 00

+90 312 815 12 98

OPTIONAL ACCESSORIES

- Flashing lights in front of the road blocker.
- Protective construction(tubular) around the drive unit.
- DC motor and pump with dry batteries.
- Transformer to convert the power.
- Submersible drainage pump.
- Wrong-way alarm.
- High-speed alarm.
- Different colors.
- Hot-dip galvanizing.
- It is possible to operate the system by using a solar panel with a DC motor.
- SCADA or any control system: It is possible to change and check the position of road blocker with a touch screen control panel, mobile devices (ios-android), computer, etc.
- Uninterrupted power supply (UPS).
- Coolers or heaters.
- Hydraulic accumulator.

MAIN BODY MEASUREMENTS AND FOUNDATION