

HRR-CT-SHM



GENERAL DESCRIPTION

Optima HRR-CT-SHM crash-tested shallow mount hydraulic road blockers are designed especially for entrance points that have a threat of vehicle attack or for the ones that have high-security requirements. Drive unit is electro-hydraulic, but in case of power failure, road blocker can be lowered or lifted manually with the help of a hand pump. Typical raise/lower time is 3-5 seconds, in case of emergency, raise/lower time can be as low as 1.5 seconds if hydraulic accumulator added to system (optional).

Optima HRR-CT-SHM crash-tested shallow mount hydraulic road blockers are crash tested to PAS 68 V/7500[N3]/80/90:0.0.(Zero penetration).

Optima HRR-CT-SHM crash-tested shallow mount hydraulic road blockers are suitable solutions for the places in which deep foundation is not possible. The road blocker depth is only 40 cm.

STEEL STRUCTURE

Road blocker withstands a minimum of 50 tons axle load. Cushioned cylinders power the road blocker up as they pivot on multi- sealed bearings. The steel structure is sandblasted or can be hot-dip galvanized as an option. The standard color is RAL1028 yellow / RAL9005 black.

INCLUDED ACCESSORIES

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

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

- Flashing lights in front of the road blocker.
- Protective construction(tubular) around drive unit.
- Hydraulic accumulator.
- Transformer to convert the power.
- Uninterrupted power supply (UPS).
- DC motor and pump with dry batteries.
- It is possible to operate the system by using solar panel with DC motor.
- Coolers or heaters.
- 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.

SPECIFICATIONS OF HRR-CT-SHM

- Certificates : PAS68 V/7500[N3]/80/90:0.0 and DOS SD-STD-02.01 Rev. A 03/2003 K12/L3.
- Impact Load : 1852 kJ (7.5 tons @ 80 km/h).
- Blocking width: 2000 to 6000mm.
- Blocking height : 1200mm.
- Width: Blocking width + 360mm.
- Length : 2100mm.
- Foundation Depth: 400mm.
- Operating Times: Rising & Lowering approximately 3-5 sec and emergency operation 1.5 sec via accumulator.
- Operating Temperature : -15°C / 65°C.
- Emergency Operation During Power Failure : Manually via hand pump and three remote operations with battery and accumulator.

HYDRAULIC POWER UNIT AND CONTROL ELECTRONICS

Normal operating pressure is around 80-120 bars. Coolers or heaters 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.

MAIN BODY MEASUREMENTS

