

## GENERAL VIEW OF HRR-SM



## GENERAL DESCRIPTION

Optima HRR-SM surface mount hydraulic road blockers are designed especially for entrance points which have a threat of vehicle attack or for the ones that have high-security requirements. 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. 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).

## STEEL STRUCTURE

The road blocker withstands a minimum of 50 tons of load per axle. Cushioned cylinders power the road blocker up as they pivot on multi-sealed bearings. The steel structure is sandblasted. The standard color is RAL1028 yellow / RAL9005 black.

## HYDRAULIC POWER UNIT AND CONTROL ELECTRONICS

Normal operating pressure is around 60-110 bars. Coolers or heaters are can be integrated into 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, three phase, 50-60Hz (or 220V/440V/etc., three phase, 50-60 Hz, optional by transformer).

## OPTIONAL ACCESSORIES

- ⇒ 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.
- ⇒ Different colors.
- ⇒ Red/green traffic lights.
- ⇒ Dual vehicle safety loop detector.
- ⇒ 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.

## INCLUDED ACCESSORIES

- ⇒ Flashing lights.
- ⇒ Safety Photocell.

## SECURITY SYSTEMS | HRR-SM SURFACE MOUNT HYDRAULIC ROAD BLOCKERS

### MODELS

- ⇒ Raised height : From 400 to 1000mm.
- ⇒ Road Clearance Width : 2500-5200mm.
- ⇒ Road Blocker Complete Width : Road Clearance Width + 1865mm.

### MAIN BODY MEASUREMENTS AND FOUNDATION



Power unit and hydraulic pistons are attached to the road blocker. Therefore, it increases the road blocker clearance width by 1865mm, It should be considered according to site conditions. If hydraulic power unit is separated from road blocker, road blocker total width can be decreased by 890mm.

