





BARRIERS GSR-XSeries GateSet GSR3100-X Series High Impact Rated Hydraulic Road Blockers are designed to meet ASTM M50 / IWA14-1 / PAS68 level impact resistance. The product has successfully passed a full scale crash test with zero penetration and maintained its operational functions after impact. Certified by IWA14-1:2013 standards, GSR-X Series Road Blockers provide maximum protection in areas that require high-level security through idealistic

design, high quality components and top grade material.

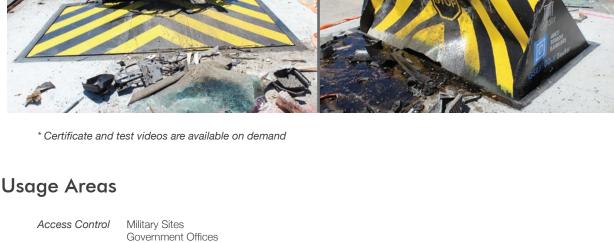
GSR-XDatasheet v.2.1

20022

Crash Test (IWA 14-1:2013) Photos *



TRANSF



Airports Industrial Areas

Featured Characteristics

Police Headquarters Research Centers **Embassies**

Heavy Gauge Structure

Heavy Duty Operation

High Impact Resistance

Speed Control & Position Sensing GSR-X Series possess two advanced features which extend the usage life of the system: Position Detection with weather proof proximity limit sensors which immediately stops the motor operation at limit points. Descending Speed at Closing and Opening Points which provides a silent operation.

Road Blocker Structure is made out of heavy gauge material. Underground case has a top frame made of NPU Steel. Inside the blocking wedge there are 6 sets of 3-up hinge bars, constructed from heavy duty Steel Plates, which support the structure against impact.

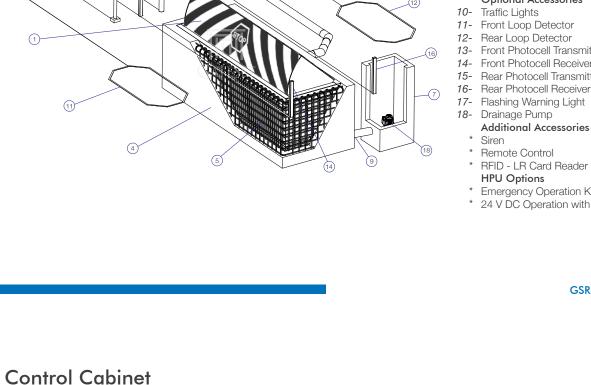
Designed for intense industrial usage with 100% Duty Cycle, by powerful HPU, strong wedge and durable hydraulic lift piston. With its 5.5 kW powerful motor GSR-X Series are capable to complete up or down movement in 4-5 seconds without any limitation of daily usage.

GSR3100-X Series is Crash Test Certified in accordance with IWA14-1:2013 standards

with zero penetration, providing a direct equivalence with PAS 68 and a superior energy resistance compared to M50 P1 rating of US Standard ASTM F2656-07 Flexible and Reliable Ease of integration with all access control equipment through its Schneider PLC unit which possesses 12 Inputs and 8 Outputs. All electronic equipment are Schneider branded with

the highest reliability available in the market.

System Components and Accessories Main Components



Drainage Pipe **Optional Accessories** 10- Traffic Lights 11- Front Loop Detector

1- Road Blocker Component

Foundational Components Foundation Concrete 5- Reinforced Steel Bars

Control Cabinet Mounting Plate Drainage Pit Concrete 8- Hoses and Electrical Cables at PVC Underground Pipe

2- Control Cabinet Control Keyboard

- Rear Loop Detector 13- Front Photocell Transmitter 14- Front Photocell Receiver 15- Rear Photocell Transmitter
- Flashing Warning Light 18- Drainage Pump Additional Accessories Siren
- RFID LR Card Reader **HPU Options** Emergency Operation Kit 24 V DC Operation with Batteries

Remote Control

GSR-XDatasheet v.2.1

- New Compact Design * More Silent Operation * Heavy Duty with 5.5 kW Motor * All Equipment are European and Turkish Made

HPU (Hydraulic Power Unit)





Control Cabinet

Optional Features

* HPU2400 + EOK

* HPU 2400

* EOK

Control Cabinet

- New Compact Design

* 2 mm Steel Thickness

* Weather Resistant Sealing

* Dust Filtered Air Cooler

* Extra Strong Anti-Rust Finishing

* Operation Testing Panel on Cover

* Ease of Access - Single Cover



HPU 2400 KIT

- Optional Feature

Circuit at ECU

DC Power

* Spare 24 V DC Motor and Pump at HPU

* 10 Complete Cycles without Electricity * Seamless Auto Switch between AC and

* 2x 12 V 50 mAh Batteries at ECU * Meanwell (Canadian) Battery Charger

ECU (Electronic Control Unit)

* Operation Control with Schneider PLC * All Equipment are European Made

* Multilevel Overcurrent Protection

* Operation Testing Panel on Cover

* Ease of Access - High Positioning

- New Compact Design

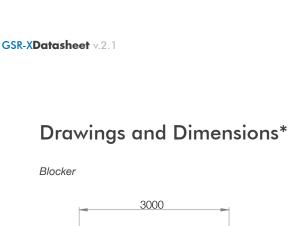
* Electrical Safety

* Panic Button at Remote Keybord * 1.5 Second Raising Time in Case of Emergency

* High Pressured Accumulator at HPU

EOK (Emergency Operation Kit)

- Optional Feature

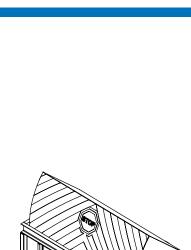




1600

SideView

390



IsometricView

230 Side View

EO EO

TopView

+HPU2400+EOK

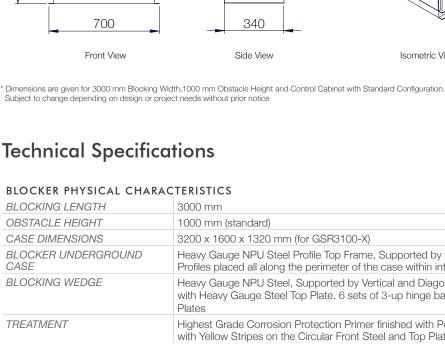
510 mm

3200

Front View

750

Cabinet & Keyboard



OPERATIONAL CHARACTERISTICS

CONTROL CABINET PHYSICAL CHARACTERISTICS

Width:

7,200 kg at 80 km/h

35 Tons

2 Years

DRIVE DRIVE POWER

CONTROL CABINET

CABINET DIMENSIONS

IMPACT RESISTANCE

PENETRATION LEVEL

AXLE LOAD RESISTANCE

OPTIONAL ACCESSORIES

CERTIFICATIONS WARRANTY

CERTIFICATIONS AND WARRANTY

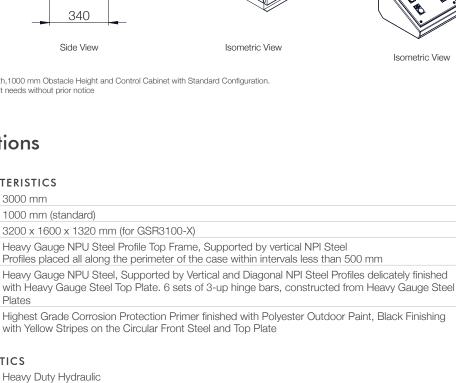
(may vary in accordance

RESISTANCE CHARACTERISTICS



Heavy Duty Hydraulic

Min 10 Bars / Max 120 Bars



RISING / FALLING TIME 4-5 Seconds (Adjustable) Slowing Down at Opening and Closing Limit Points SPEED CONTROL WORKING FREQUENCY 300+ Cycles/Hour **EMERGENCY OPERATION** Rising in 1.5 Seconds (with optional EOK Kit) POWER OUTAGE Capable to make 10+ Complete Cycles without Electricity (with optional HPU2400 Kit) POSITION DETECTION 2 Weather Proof Proximity Limit Sensors MANUAL OPERATION Ascending and Descending with Manual Hand Pump

with project specific features)	Length:	750 mm	1250 mm	1310 mm	1310 mm		
	man project opcome reatarce,	Height:	1290 mm	1050 mm	1250 mm	1250 mm	
	ELECTRICAL CHARACTERISTICS						
	ELECTRIC MOTOR	380 V AC / 50-60 H	łz. 5.5 kW,				
	CONTROL PANEL	Schneider PLC, Integration with Various Systems					
	TEST PANEL	Integrated Test Pan	el on Electric Cabin (Cover, Phase Indicato	ors		

Standard

390 mm

2 mm Thick Steel, Electrostatic Thermal Painting for Anti-Corrosion Resistance

+HPU2400

510 mm

Static Penetration of Truck: -1.18 m (negative) - Dynamic Penetration of Truck: 0.0 m (zero)

Traffic Lights, Flashing Light, Siren, Warning Sign, Drainage Pump, Touchscreen Control Keyboard

510 mm

CRASH TEST CERTIFICATION	14-1:2013 Blocker V/7200[N2A]/80/90:0.0
PROTECTION CLASS	IP 65
OPERATING TEMPERATURE	+ 70 °C / - 15 °C
EQUIPMENT AND ACCESSOR	IEC
EGOILWEILI AIND ACCESSOR	IES
HYDRAULIC PIPES	18/1.5 Connector - 1/2 Radius, 350 Bars Max Pressure, 10 m Pipe Length (standard)
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IWA 14-1:2013, ISO 9001:2015, CE

GATESET

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