

RGB-20 / RGB-20L is a non-reversing electromechanical automatic barrier which has been designed and manufactured for high volume vehicle traffic such as highway, commercial car parks, entrances, roadway control, business and industrial premises applications.

Using long life electromechanical geared motors, suitable to carry out long hours of operation.

The system will be released automatically in case of power failure.



- **RGB - 20**
- **RGB - 20L**

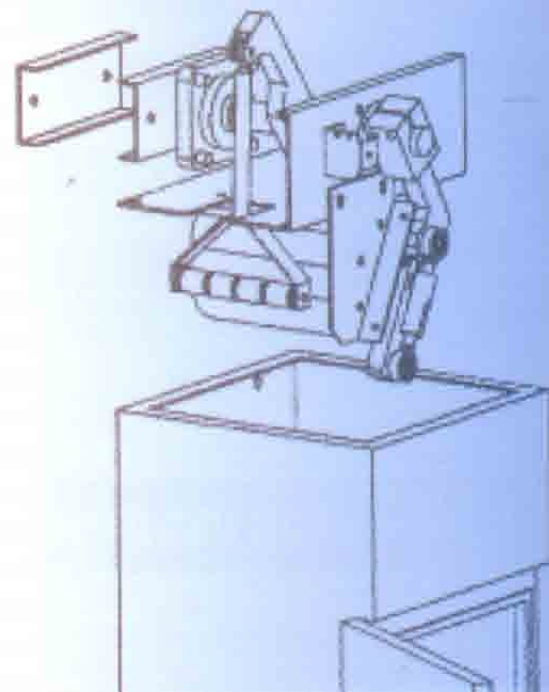
RELIABLE AND PROBLEM - FREE OPERATION

- Driven by a torque motor which is designed for alternating current and maintenance-free. It can be stalled at any position without the risk of damage.
- At both terminal limiting positions, the motor power is reduced to approximately 20W. This reduces the power consumption to a minimum (power is dissipated in the form of heat); which prevents the occurrence of condensation and corrosion. It is able to operate normally, guarantee reliable and problem-free function even in the cold climatic conditions.
- The rotating system uses the sine link motion gear, removes the decelerating device used by ordinary automatic barrier, causing entire system even more hastened compact, reasonable, thus greatly reducing the mechanical breakdown.
- At the moment of power on or off, motor will never encounter the instantaneous large electric current and voltage ripple which are inevitable by ordinary motor due to its special motor coil structure. Can directly use UPS to supply power while not affecting the normal works of other equipment in the same electrical network.
- Entirely aluminium alloy motor casing, higher grade of coordination precision, lower noise, and anti-rusty, longer lifespan.



SOLID, ROBUST & ELEGANT APPEARANCE

- The motor case is manufactured from the steel plate after special craft processing and its surface is painted with orange color high class vehicle sprays for maximum protection against corrosion and discoloration caused by the ultraviolet ray illumination.
- It is highly reliable with its housing treated with a smooth control mechanism ensures efficient fast operation and performance.
- The boom arm uses special aluminium material with red reflection thin film pasted at surface so it can be clearly seen at night.



OMNI-DIRECTIONAL SAFETY PROTECTION AND SECURITY FUNCTIONS

- **Anti-crushing structure : -**

RGB-20 / RGB-20L is operating in high speed; therefore it comes with built-in equipment, including both opening and closing decelerations, with an anti-crushing safety device. When the barrier boom arm is hit by vehicle due to accident, anti-crushing structure able to rotate barrier arm by 90 degrees, in hence to avoid or reduce the damages.

- **LED Signal Light: -**

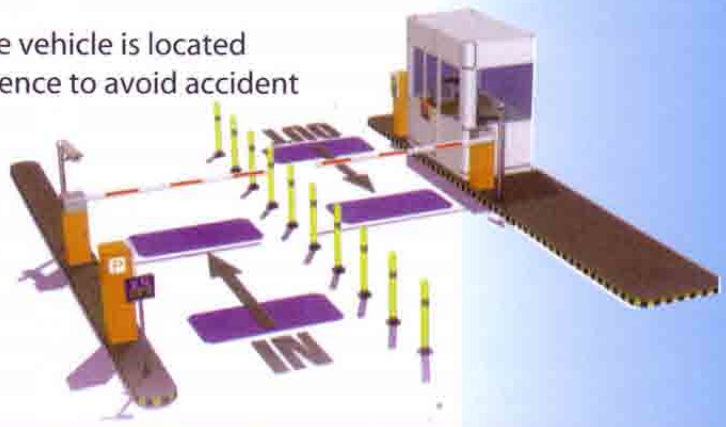
Automatically change traffic light signal for vehicle traffic-flowing.

- **Infrared Protection : -**

Able to examine pedestrian passing to avoid accident.

- **Vehicle Anti-hitting Function : -**

After installing loop-detector, whenever the vehicle is located under the barrier, barrier will never close, hence to avoid accident from happening.



BARRIER LOOP DETECTORS

100LP / 200LP is an intellectual loop detector used to detect vehicle, bicycle, and metal, etc; suitable to be used at car park, highway toll station and signal light control system, etc. 100LP / 200LP uses the most advanced microprocessor technology and is able to satisfy applications under various kind of environment. Whenever the metal passes through the loop or coil installed below the road surface and due to metallic conductor will change the coil inductance, 100LP / 200LP loop detector senses metal through the changes in coil inductance.



TECHNICAL SPECIFICATION

Model No	RGB-20	RGB-20L
Opening / Closing Times	1.4s	2.5s
Arm Length	3.0m	2.0 + 1.0m
Arm Dimension	3035 (L) x 980 (W) x 52 (D)mm	
Supply Voltage	AC 230V	
Frequency	50Hz	
Type of Use	100% Duty cycle	
Motor Rated Power	120W	
Motor Rated Speed	22 r/min	
Operating Noise	≤ 60 dB	
Operating Lifespan	≥ 5 Million time	
Operating Temperature	-40°C ~ +75°C	
Relative Temperature	50%	
Housing	2mm Zinc plated sheet steel	
Atmospheric Pressure	86Kpa	
Dimensions (mm)	360(L) x 360(W) x 1010(H)	
Weight	58Kg	
Standard color	Orange	
Protection Degree	IP 55	

Model No	100LP	200LP
Type	1ch	2ch
Housing	PC + ABS material	
Installation	DIN guide rail	
Coil Inductance	50 ~1000pH	
Storage Temperature	-40°C to +85°C	
Operating Temperature	-40°C to +65°C	
Maximum Relative Temperature	95%	
Relay Pulse Output Width	300ms	
Time Delay	0 ~ 4 sec	
Reaction Time	100ms	
Output Relay	1A / 24 VDC	
Power Supply	AC 220V ±10%	
Dimensions (mm)	110 (L) x 100 (H)	