

Rail Automation

Grade Crossing Gate Mechanisms

Model S-60 Entrance and Exit Gates

An inline gear motor and electric brake combination replaces the older motor and electromechanical hold clear device with a newer technology.

The patented bi-directional lock bar is used to securely lock the gate arm in any position to allow field personnel to perform maintenance functions.

Diagnostic LEDs on the PC board monitor the condition of the mechanism. The LEDs make it possible to diagnose the mechanism without the use of a meter.

Integrated Maintenance Switch helps to enable a low Mean-Time-To-Restore (MTTR) by providing a simple method to move the gate mechanism to the horizontal position which is required to replace the gate arm after a knockdown.

Options

- Up to three separate contact/cam arrangements may be added for position indication, traffic preemption interface, etc.
- Mini trackside sensor (MTSS)
- Defrosters available in 12, 24 and 115 volt versions
- 115 VAC defrosters
- Supports gate arms up to 38 feet

Specifications

- Housing & Cover - Cast aluminum alloy
- Gear Train - 240:1 reduction (gear motor output to main shaft)
- Bearings - Maintenance-free, sealed construction
- Gearmotor - 12 VDC, special purpose
- Operating Voltage - 11 to 16 VDC
- Operating Current - 6-15A @ 12 VDC (current varies with gate arm length)
- Hold (Vertical) Current - 300mA without MTSS, 450mA with MTSS @ 12 VDC
- Circuit Breaker - 24 Amp, electronic auto restoration (reset in 10 secs.)
- Weight - 320 pounds (mechanism only)

Features

- Safely lock gate in any position with the patented locking bar
- On board diagnostic LEDs simplify troubleshooting
- Optional module for Bell and Gate monitoring
- A 90% spare part compatibility between the entrance and exit gate mechanism, reduces your cost of ownership
- Integrated PC board with over-speed control
- Adjustable circuit to set descend times
- Electronic auto-reset overload for motor protection
- Standard gate mechanism is equipped with four (4) contact/cam arrangements
- Maintenance operation to power down counterweights when gate arm is broken
- Single and two-wire gate control capability
- Horizontal & vertical buffers adjusted from outside of mechanism
- Lifting eyebolt for ease of installation

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.



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