



WAYGUARD®

# S-60 Series Grade Crossing Gate Mechanisms

Siemens Wayguard® S-60 Series Grade Crossing Gate Mechanisms are ideal for operating grade crossing entrance and exit barrier arms up to 40' (12 m) in length.

Built on proven robust reputation of the legacy S-20 and S-40 iterations, it retains a high-strength cast aluminum housing, maintenance-free bearings, reliable gear train and rotary circuit controller. An inline gear motor and electric brake combination replaces older motor and electromechanical hold clear device with modern technology.

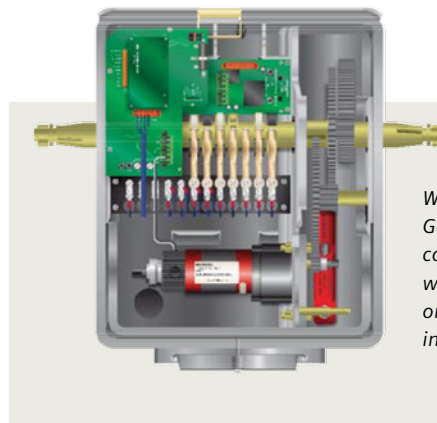
The patented bi-directional lock bar is used to securely lock the gate arm in any position to allow field personnel to perform maintenance functions.

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.

Optional Mini Trackside Sensor (MTSS) consolidate the monitoring of barrier position, electronic bell and tip lights to the Wayguard® SEAR II Series Event Recorder.



*Wayguard® S-60 Series Grade Crossing Gate Mechanism, six (6) cam, exit configuration with MTSS shown without cover for reference purposes only. Actual unit selected may vary in mounting and features.*

**SIEMENS**

## General Data

Specification	Parameters
<b>SERIES DESIGNATION</b>	<b>ALL MODELS</b>
Housing & Cover	Cast aluminum alloy
Gear Train	240:1 reduction (gear motor output to main shaft)
Bearings	Maintenance-free, sealed construction
Gearmotor	Inline 12 VDC, special purpose
Operating Voltage	11 to 16 VDC
Operating Current	6-15 A @ 12 VDC (current varies with gate arm length)
Hold (Vertical) Current	300 mA without MTSS, 450 mA with MTSS @ 12 VDC
Circuit Breaker	24 A, electronic auto restoration (reset in 10 sec)
Weight	Varies on options selected (Base model with no options 320 lb (145.15 kg))

## Environmental Data

Specification	Parameters
<b>SERIES DESIGNATION</b>	<b>ALL MODELS</b>
Operating Temperature	-40 °F to +160 °F (-40 °C to +70 °C)
Humidity ( <i>Maximum</i> )	90% non-condensing

## Ordering

To Order Call	Specify
1 (800) 793-7233	Part Number

## Features

- Maintenance free, weatherproof design.
- Safely lock gate in any position with the patented locking bar.
- Onboard 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 overspeed control.
- Adjustable circuit to set descend times.
- Electronic auto-reset overload for motor protection.
- Standard gate mechanism is equipped with four (4) arrangements. With configurations up to seven (7) cam arrangements.
- Maintenance operation to power down counterweights when the gate arm is broken.
- Single and two-wire gate control capability.
- Horizontal and vertical buffers adjusted from outside of mechanism.
- Lifting eyebolt for ease of installation.



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