Grade Crossing Control Systems

Products

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Grade Crossing Predictors
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**Wayguard® GCP 5000 Series**
Grade Crossing Predictors
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Overview

Model A980490 Wayguard® SGCP 4000 Series Wide Chassis version shown for reference purposes only! Actual unit selected may vary in mounting and features.

SIEMENS Wayguard® Simple Grade Crossing Predictor SGCP 4000 / Motion Sensors MS 4000 Series is a modular microprocessor controlled motion detector system that is designed to reliably detect the motion of an approaching train and start the crossing warning system.

Based on the maximum impedance of an unoccupied track circuit, which is determined by the location of the termination shunts and the rate of change in the impedance resulting from the physical location of a train as it moves within the track circuit.

- Available in single track non-redundant and single track redundant models.
- Uses proven Wayguard® GCP 4000 Series modules (Which are all hot swappable and interchangeable within any Wayguard® GCP 4000 Series systems):
  - CPU II+ Module (Model A80403)
  - Track Module (Model A80418)
    (complete with island, two configurable vital inputs, vital XR output, and vital Island output)
- Provides a simple user interface in order to easily program and setup the unit.
- The Wayguard® SGCP 4000 / MS 4000 programming can be confirmed by an Office Configuration Check Number (OCCN) and the track calibration information can be confirmed by a Track Check Number (TCN).
- Provides a diagnostic history log and train move history log with being capable of interfacing to a Event Recorder/ Analyzer (SEAR II) for additional recording capability.
- Supports the use of an external island using a vital input.
- Supports the use of an Office Configuration Editor (OCE) allowing minimum programming steps to be specified by design.
- Transfer module can be removed and a strap can be used to force either main or standby operation without the transfer module present.
- Can be configured as a basic predictor.
- The Wayguard® SGCP4000 / MS4000 comes ready for field installation; requiring minimum configuration per the railroad’s approved wiring or installation instructions to place the unit into operation.

For additional optional modules, See this section, Pages A13 - A19
Wayguard® SGCP 4000 / MS 4000 Series - Simple Grade Crossing Predictor / Motion Sensor Assemblies

**Single One Track Non Redundant - Narrow Chassis Configurations**

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<thead>
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<th>NYK:800804950000</th>
<th>NYK:8410804950000</th>
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<td><strong>List Price</strong></td>
<td><strong>List Price</strong></td>
</tr>
<tr>
<td>$2,384.00</td>
<td>$10,154.00</td>
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**SGCP 4000 / MS 4000 Empty Narrow**
- Weight is approx. 8.25 lbs. (3.74 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Single one track narrow chassis
- (1) NYK:8000804350001 SPI ECD module
- (2) NYK:Z610393250001 blank module cover panels
- NO other modules
- Reduced footprint for installation almost anywhere
- Simple interface for programming

**SGCP 4000 / MS 4000 Comprehensive Narrow**
- Weight is approx. 10.50 lbs. (4.76 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:8000804460003 Chassis
- (1) NYK:8000804030003 CPU II+ module
- (1) NYK:8000804180001 Track module
- (1) NYK:8000804350001 SPI ECD module
- Reduced footprint for installation almost anywhere
- Simple interface for programming

Assembly configurations shown are only a small sampling of commonly ordered assemblies. Other configurations may be available upon request. Please contact the Technical Assistance for Rail Automation team @ 1-800-793-7233 (Option 1) or RA.RailTechSupport.ic@siemens.com for additional details.
Wayguard® SGCP 4000 / MS 4000 Series - Simple Grade Crossing Predictor / Motion Sensor Assemblies

**Single One Track Non Redundant - Wide Chassis Configurations**

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration</th>
<th>List Price</th>
<th>Notes</th>
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<tr>
<td>NYK:8000804900000</td>
<td>SGCP 4000 / MS 4000 Empty Wide</td>
<td>$3,508.00</td>
<td>- Weight is approx. 16.84 lbs. (7.64 kgs.) including connectors. - Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity - Single one track wide chassis - (1) NYK:8000804350001 SPI ECD module - (5) NYK:Z610393250001 blank module cover panels - NO other modules</td>
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<td>NYK:8110804900001</td>
<td>SGCP 4000 / MS 4000 Basic Wide</td>
<td>$10,367.00</td>
<td>- Weight is approx. 19.80 lbs. (8.98 kgs.) including connectors. - Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity - (1) NYK:8000804910001 Chassis - (1) NYK8000804030003 CPU II+ module - (1) NYK:8000804180001 Track module - (1) NYK:8000804350001 SPI ECD module - (3) NYK:Z610393250001 blank module cover panels - NO other modules</td>
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<tr>
<td>NYK:8421804900001</td>
<td>SGCP 4000 / MS 4000 Comprehensive Wide</td>
<td>$19,704.00</td>
<td>- Weight is approx. 23.60 lbs. (10.70 kgs.) including connectors. - Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity - (1) NYK:8000804910001 Chassis - (2) NYK:8000804030003 CPU II+ modules - (2) NYK:8000804180001 Track modules - (1) NYK:8000804060002 Transfer module - (1) NYK:8000804350001 SPI ECD module - NO other modules</td>
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</table>

Assembly configurations shown are only a small sampling of commonly ordered assemblies. Other configurations may be available upon request. Please contact the Technical Assistance for Rail Automation team @ 1-800-793-7233 (Option 1) or RA.RailTechSupport.ic@siemens.com for additional details.
Narrow Chassis Assembly Configuration Dimensions

- Overall: 16.88" (42.88 cm)
- Center to Center: 5.94" (15.09 cm)
- Center to Center: 5.00" (12.7 cm)
- Overall: 19.09" (23.09 cm)

Wide Chassis Assembly Configuration Dimensions

- Overall: 10.86" (27.58 cm)
- Center to Center: 10.16" (25.81 cm)
- Center to Center: 9.50" (24.13 cm)
- Center to Center: 11.125" (28.26 cm)
- Overall: 14.25" (36.20 cm)

Overall Dimensions

- Width: 12.38" (31.45 cm)
- Height: 14.25" (36.20 cm)
- Overall: 10.86" (27.58 cm)
Overview

- Connector to Echelon® LAN Interface
- Diagnostic Connector
- Port for direct computer interfacing
- Power Supply Connector
- Track Receive, Transmit Check and Input / Output connections
- Solid State Crossing Controller connections
- Modules

Features

- Up to (6) track circuits including Intelligent Processor Island (IPI) and Downstream Adjacent Crossings (DAX)es.
- (2) Solid State Crossing Controller (SSCC IIIi) modules capable of providing up to (40) amps of lamp energy and controlling up to (4) quad gates.
- (1) Event Analyzer / Recorder (SEAR IIIi) with automated inspection and reporting capability.
- Built-in vital ATCS communication protocol for advanced application such as RF DAXing.
- Support for Phase Shift Overlay (PSO) track boards allowing PSO circuits for DAXing.
- Multiple vital timers and Vital AND gates
- Embedded Display for configuring, calibrating, diagnostics, and troubleshooting.
- Built-in support for configuration management (including hardware information)

SIEMENS Wayguard® Grade Crossing Predictor 4000 Series offers the rail industry’s only fully integrated, field-proven crossing warning system since January 2003, with over 5000 systems in revenue service!

Significantly reduced wiring due to system integration and the internal SIEMENS Event Analyzer / Recorder (SEAR IIIi). A single track system reduces house wiring costs by 30%.

Reduced footprint (as compared to discrete components) has the potential for a smaller equipment house, or for more equipment to be housed in the same size equipment house.

Flexible interface to the signaling and traffic systems, including preemption logic, enable, wrap, and override functions, field selectable Loss of Shunt (LOS) timers, pick-up delays, and drop-delays.

Model A80440
shown for reference purposes only!
Actual unit selected may vary in mounting and features.

For additional optional modules, See this section, Pages A13 - A19
NYK:80008044500000

List Price $ 2,384.00

GCP 4000 Empty Single One Track
- Weight is approx. 8.25 lbs. (3.74 kgs.) including connectors.
- Operates in -40° F to +160° F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Single one track narrow chassis
- (1) NYK:80008044500000 Chassis
- (1) NYK:8000804350001 SPI ECD module
- NO other modules
- Reduced footprint for installation almost anywhere
- Simple interface for programming

GCP 4000 Comprehensive Single One Track
- Weight is approx. 10.50 lbs. (4.76 kgs.) including connectors.
- Operates in -40° F to +160° F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:80008044500000 Chassis
- (1) NYK:8000804030003 CPU II+ module
- (1) NYK:8000804180001 Track module
- (1) NYK:8000804350001 SPI ECD module
- Reduced footprint for installation almost anywhere
- Simple interface for programming

Applicable for all GCP 4000 Series Single One Track Non Redundant configurations

NYK:84108044500000

List Price $ 10,154.00

Grade Crossing Systems
Grade Crossing Control Systems Products
SIE-RA-CMP-001-17-EN
Wayguard® GCP 4000 - Grade Crossing Predictor Assemblies

Single Five Track Non Redundant Configurations

NYK:80008044000000

GCP 4000 Empty Single Five Track
- Weight is approx. 26.01 lbs. (11.80 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Single five track chassis
- (1) NYK:8000804350001 SPI ECD module
- (8) NYK:Z610393250001 blank module cover panels
- (1) NYK:Z610393260001 blank display cover panel
- (1) NYK:Z610393590001 blank SEAR cover panel
- NO other modules

List Price: $3,744.00

NYK:811080440002C0

GCP 4000 Comprehensive Single Five Track
- Weight is approx. 48.60 lbs. (22.04 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:80008044000000 Chassis
- (1) NYK:8000804030003 CPU II+ module
- (1) NYK:8000804180001 Track module
- (1) NYK:8000804070003 Display module
- (1) NYK:8000804050001 SSCC IIIi modules
- (1) NYK:8000804350001 SPI ECD module
- (4) NYK:Z610393250001 blank module cover panels
- NO other modules

List Price: $23,207.00

Applicable for all GCP 4000 Series Single Five Track Non Redundant configurations

23.25" (59.06 cm) Overall

22.15" (56.26 cm) Overall

12.38" (31.45 cm) Chassis
GCP 4000 Empty Single Basic Crossing
- Weight is approx. 13.33 lbs. (6.05 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Single basic crossing chassis
- (1) NYK:8000804350001 SPI ECD module
- (4) NYK:Z610393250001 blank module cover panels
- (1) NYK:Z610393260001 blank display cover panel
- NO other modules
- Reduced footprint for installation almost anywhere
- Simple interface for programming

GCP 4000 Comprehensive Single Basic Crossing
- Weight is approx. 26.70 lbs. (12.11 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:80008045500000 Chassis
- (1) NYK:8000804030001 CPU II+ module
- (1) NYK:8000804180001 Track module
- (1) NYK:8000804070003 Display module
- (2) NYK:80008040500001 SSCC Illi modules
- (1) NYK:8000804350001 SPI ECD module
- NO other modules
- Reduced footprint for installation almost anywhere
- Simple interface for programming

List Price
NYK:80008045500000 $4,628.00
NYK:811080455002A0 $21,350.00

Applicable for all Wayguard® Grade Crossing Predictor GCP 4000 Series Basic Crossing Non Redundant Configurations
**Wayguard® GCP 4000 - Grade Crossing Predictor Assemblies**

**Dual Two Track Redundant Configurations**

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<th>NYK:822080465002C0</th>
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<td><strong>List Price</strong></td>
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<td>$31,296.00</td>
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**GCP 4000 Empty Dual Two Track**
- Weight is approx. 25.73 lbs. (11.67 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Dual two track chassis
- (1) NYK:8000804350001 SPI ECD module
- (8) NYK:Z610393250001 blank module cover panels
- (1) NYK:Z610393260001 blank display cover panel
- (1) NYK:Z610393590001 blank SEAR cover panel
- NO other modules
- Built in DAXing, ATCS communications protocols

**GCP 4000 Comprehensive Dual Two Track**
- Weight is approx. 50.10 lbs. (22.73 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:80008044000000 Chassis
- (2) NYK:8000804030001 CPU II+ module
- (2) NYK:8000804180001 Track module
- (1) NYK:8000804070003 Display module
- (1) NYK:800080404100001 SEAR III module
- (2) NYK:8000804050001 SSCC IIIi modules
- (1) NYK:8000804680001 Transfer module
- (1) NYK:8000804350001 SPI ECD module
- (2) NYK:Z610393250001 blank module cover panels
- NO other modules
- Built in DAXing, ATCS communications protocols

*Applicable for all Wayguard® Grade Crossing Predictor GCP 4000 Series Dual Two Track Redundant configurations*
### GCP 4000 Empty Dual Six Track
- Weight is approx. 35.59 lbs. (16.14 kgs.) including connectors.
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Dual six track chassis
- (1) NYK:80008043500001 SPI ECD module
- (1) NYK:Z610393250001 blank module cover panels
- (2) NYK:Z610393260001 blank display cover panel
- (1) NYK:Z610393590001 blank SEAR cover panel
- NO other modules
- Built in DAXing, ATCS communications protocols

### GCP 4000 Comprehensive Dual Six Track
- Weight is approx. 66.84 lbs. (30.32 kgs.) including connectors.
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:80008044000000 Chassis
- (2) NYK:8000804030001 CPU II+ module
- (12) NYK:80008041800001 Track module
- (1) NYK:80008040700001 Display module
- (1) NYK:80008040700001 SEAR IIi module
- (2) NYK:80008040500001 SSCC IIIi modules
- (1) NYK:80008040600001 Transfer module
- (1) NYK:8000804350001 SPI ECD module
- NO other modules
- Built in DAXing, ATCS communications protocols

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List Price: $7,188.00

List Price: $26,738.00
Applicable for all Wayguard® Grade Crossing Predictor GCP 4000 Series Dual Six Track Redundant configurations

- Overall: 23.25” (59.06 cm)
- Overall: 12.38” (31.45 cm)
- Overall: 31.47” (79.93 cm)
Overview

- Up to (6) track circuits including Intelligent Processor Island (IPI) and Downstream Adjacent Crossings (DAX)es.
- (2) Solid State Crossing Controller (SSCC IIIi) modules capable of providing up to (40) amps of lamp energy and controlling up to (4) quad gates.
- (1) Event Analyzer / Recorder (SEAR IIi) with automated inspection and reporting capability.
- Built-in vital ATCS communication protocol for advanced application such as RF DAXing.
- Support for Phase Shift Overlay (PSO) track boards allowing PSO circuits for DAXing.
- Multiple vital timers and Vital AND gates
- Embedded Display for configuring, calibrating, diagnostics, and troubleshooting.
- Multiple vital timers and vital AND gates
- Digital Terminal Display for configuring, calibrating, diagnostics, and troubleshooting
- Ethernet Ports for connection to Ethernet based vital communication devices
- USB ECD storage of SEAR and Display parameters
- Built-in support for configuration management
  (including hardware information)

SIEMENS Wayguard® Grade Crossing Predictor 5000 Series can have up to 6 Track Modules for train detection, with each Track Module having nine track predictors that are configurable as motion sensors or predictors. The Track Module Prime Predictor is generally used for control of local crossings. The Track Module DAX A through DAX G Predictors are generally used for control of remote crossings.

The Track Module Preempt Predictor is generally used for interconnection with traffic signal systems. Each track module has two vital inputs and two vital outputs. In addition to predictors, each track module is capable of providing a multifrequency island circuit.

Using internal crossing controller(s), the GCP can control the bells and gates of a crossing and up to 40 amps of lights. Each SSCC IIIi module has 5 vital outputs. The GCP can utilize internal PSO Modules that have the ability to detect train direction on a bidirectional track circuit that allows the control of remote crossings (DAXing). Each PSO Module has three vital outputs and two vital inputs. The GCP can utilize RIO modules to extend I/O capability via the RIO’s four vital inputs and four vital outputs. The GCP has redundant Main/ Standby operation for CPU, Track, PSO, and RIO modules.
<table>
<thead>
<tr>
<th>Model</th>
<th>List Price</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>GCP CPU II+ Module</strong></td>
<td>$4,466.00</td>
<td>- Weight: approx. 1.25 lbs. (0.56 kgs.)</td>
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<td></td>
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<td>- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing RH</td>
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<td></td>
<td></td>
<td>- Programmable integrated circuits onboard 9V792-A03X, 9V691-A03X and 9V789-A06X</td>
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<tr>
<td></td>
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<td>- Echelon® and communications capabilities</td>
</tr>
<tr>
<td><strong>GCP Track Module</strong></td>
<td>$4,719.00</td>
<td>- Weight: approx. 1.0 lbs. (0.56 kgs.)</td>
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<td></td>
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<td>- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing RH</td>
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<tr>
<td></td>
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<td>- (9) Prediction functions</td>
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<td><strong>GCP SSCC IIIi Module</strong></td>
<td>$2,547.00</td>
<td>- Weight: approx. 3.6 lbs. (1.63 kgs.)</td>
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<td>- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing RH</td>
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<td>- Isolated gate controller</td>
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<td>- (20) Amp light controller</td>
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<tr>
<td><strong>GCP 4000 / 5000 Display Module</strong></td>
<td>$2,747.00</td>
<td>- Weight: approx. 4 lbs. (1.81 kgs.)</td>
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<td>- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing RH</td>
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<td>- (1) onboard USB port</td>
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<td>NYK:8000804070003</td>
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<td>NYK:8000804060001</td>
<td>GCP Transfer Module, Wide</td>
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<td>NYK:8000804060002</td>
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<td>NYK:8000804680001</td>
<td>GCP Transfer Module, Chassis</td>
<td>$1,568.00</td>
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**GCP 4000 Display Module**
- Weight is approx. 4 lbs. (1.81 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- (1) onboard USB port

**GCP Transfer Module, Wide**
- (For use with dual six track GCP 4000 configurations)
- Weight is approx. 0.38 lbs. (0.17 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity

**GCP Transfer Module, Narrow**
- (For use with single one track SGCP / MS 4000 series)
- Weight is approx. 3 lbs. (1.36 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity

**GCP Transfer Module, Chassis**
- (For use with dual two track GCP 4000 configurations)
- Weight is approx. 1.5 lbs. (0.68 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
NYK:8000804100001

GCP SEAR IIi Module
- Weight is approx. 5.25 lbs. (2.36 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Utilizes 8000-80411-0001 recorder board

List Price
$ 4,156.00

NYK:8000804100002

SEAR IIi Module
- Weight is approx. 5.25 lbs. (2.36 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Utilizes 8000-80411-0002 recorder board

List Price
$ 4,156.00
SEAR IIi Module
- Weight is approx. 6 lbs. (2.72 kgs.) not including cable
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Utilizes 8000-80411-0001 recorder board
- (1) 8000-26654-0002 10’ (3.05 m) SEAR to CRTU cable
Phase Shift Overlay (PSO) and Relay Input / Output (RIO) Modules

NYK:8000804280001

GCP Phase Shift Overlay (PSO) Module
- Weight is approx. 1.0 lbs. (0.56 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Programmable integrated circuits onboard 9V386-A01X,

List Price
$3,443.00

NYK:8000804280002

GCP Phase Shift Overlay (PSO) Module
- Weight is approx. 1.0 lbs. (0.56 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity

List Price
$3,443.00

NYK:8000804130001

GCP Relay Input / Output (RIO) Module
- Weight is approx. 1.0 lbs. (0.56 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (4) Inputs opto-isolated, vital
- (4) Outputs opto-isolated, vital
- Output voltage 12 VDC into 500 Ω
- Relay loads 100-2000 Ω
- Cab rates 75, 120, 180, 270, 420
- Isolation 2000 VAC

List Price
$2,023.00
Blank Module Filler Plate, Narrow
- Weight is approx. 0.6 lbs. (0.27 kgs.)

Blank Display Filler Plate, Wide
- Weight is approx. 0.8 lbs. (0.36 kgs.)

Blank SEAR Filler Plate
- Weight is approx. 2.4 lbs. (2.72 kgs.)
Serial Peripheral Interface / External Configuration Device (SPI / ECD) Module

- Weight is approx. 1.30 oz. (0.04 kgs.)
- (4) Megabyte memory capacity
- (25) pin (DB25) male connector
- Knurled barrel screw fasteners

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<th>NYK:8000804350002</th>
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Wayguard® SGCP 4000 / MS 4000 Series / GCP 4000 / GCP 5000 - Simple Grade Crossing Predictor / Motion Sensor / Grade Crossing Predictor Assemblies

Serial Peripheral Interface / External Configuration Device (SPI / ECD) Modules

- Serial Peripheral Interface / External Configuration Device (SPI / ECD) Module
  - Weight is approx. 1.30 oz. (0.04 kgs.)
  - (4) Megabyte memory capacity
  - (25) pin (DB25) male connector
  - Knurled barrel screw fasteners

- Serial Peripheral Interface / External Configuration Device (SPI / ECD) Module
  - Weight is approx. 1.30 oz. (0.04 kgs.)
  - (16) Megabyte memory capacity
  - (25) pin (DB25) male connector
  - Knurled barrel screw fasteners

© Copyright 2017 Siemens Industry Inc.
Overview

- Inductive Loop Operation
- (2) Levels of systems health monitoring
- Dynamic Exit Gate Operation

Model S25-0202-01
shown for reference purposes only!
Actual unit selected may vary in mounting and features.

SIEMENS Wayguard® Exit Gate Management System (EGMS) is designed to perform exit gate timing and control as a part of an overall (4) Quadrant Gate - Warning System (4QG). Utilizing self checking inductive loop detectors to determine the presence of vehicles within the area between the entrance gates and exit gates also known as the Minimum Track Clearance Distance (MTCD).

If a vehicle is detected within the MTCD, the exit gates will not be lowered until the vehicle clears the MTCD to avoid trapping vehicles within the crossing.

As a backup mode, automatic changeover to timed exit gate or exit gate fail-up mode in the event of inductive loop failure is available through front panel programming. Providing a touch-sensitive liquid crystal display (LCD) to allow data entry and access to all stored data.

For additional optional modules,
See this section, Pages A24 - A26
4 Loop Assembly
- Weight is approx. 52.2 lbs. (16.14 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:004-101-0001X Chassis
- (1) E1400S (4) Channel Presence Detector
- (1) NYK:010-101-0006 Power supply module
- (1) NYK:010-101-0002 Display module
- (1) NYK:010-101-0003 CPU module
- (1) NYK:010-101-0004 Vital input module
- (1) NYK:010-101-0009 Vital I/O module
- NO communications module

List Price $35,065.00

8 Loop Assembly
- Weight is approx. 52.8 lbs. (16.14 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:004-101-0001X Chassis
- (2) E1400S (4) Channel Presence Detector
- (1) NYK:010-101-0006 Power supply module
- (1) NYK:010-101-0002 Display module
- (1) NYK:010-101-0003 CPU module
- (1) NYK:010-101-0004 Vital input module
- (1) NYK:010-101-0009 Vital I/O module
- NO communications module

List Price $44,234.00

12 Loop Assembly
- Weight is approx. 53.4 lbs. (16.14 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:004-101-0001X Chassis
- (3) E1400S (4) Channel Presence Detector
- (1) NYK:010-101-0006 Power supply module
- (1) NYK:010-101-0002 Display module
- (1) NYK:010-101-0003 CPU module
- (1) NYK:010-101-0004 Vital input module
- (1) NYK:010-101-0009 Vital I/O module
- NO communications module

List Price $53,403.00

16 Loop Assembly
- Weight is approx. 54.0 lbs. (16.14 kgs.) including connectors.
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- (1) NYK:004-101-0001X Chassis
- (4) E1400S (4) Channel Presence Detector
- (1) NYK:010-101-0006 Power supply module
- (1) NYK:010-101-0002 Display module
- (1) NYK:010-101-0003 CPU module
- (1) NYK:010-101-0004 Vital input module
- (1) NYK:010-101-0009 Vital I/O module
- NO communications module

List Price $62,572.00
4 Loop Assembly
- Weight is approx. 52.2 lbs. (16.14 kgs.) including connectors.
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
  - (1) NYK:004-101-0001X Chassis
  - (1) E1400S (4) Channel Presence Detector
  - (1) NYK:010-101-0006 Power supply module
  - (1) NYK:010-101-0002 Display module
  - (1) NYK:010-101-0003 CPU module
  - (1) NYK:010-101-0004 Vital input module
  - (1) NYK:010-101-0009 Vital I/O module
  - (1) NYK:010-101-0008 Communications module

8 Loop Assembly
- Weight is approx. 52.8 lbs. (16.14 kgs.) including connectors.
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
  - (1) NYK:004-101-0001X Chassis
  - (2) E1400S (4) Channel Presence Detector
  - (1) NYK:010-101-0006 Power supply module
  - (1) NYK:010-101-0002 Display module
  - (1) NYK:010-101-0003 CPU module
  - (1) NYK:010-101-0004 Vital input module
  - (1) NYK:010-101-0009 Vital I/O module
  - (1) NYK:010-101-0008 Communications module

12 Loop Assembly
- Weight is approx. 53.4 lbs. (16.14 kgs.) including connectors.
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
  - (1) NYK:004-101-0001X Chassis
  - (3) E1400S (4) Channel Presence Detector
  - (1) NYK:010-101-0006 Power supply module
  - (1) NYK:010-101-0002 Display module
  - (1) NYK:010-101-0003 CPU module
  - (1) NYK:010-101-0004 Vital input module
  - (1) NYK:010-101-0009 Vital I/O module
  - (1) NYK:010-101-0008 Communications module

16 Loop Assembly
- Weight is approx. 54.0 lbs. (16.14 kgs.) including connectors.
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
  - (1) NYK:004-101-0001X Chassis
  - (4) E1400S (4) Channel Presence Detector
  - (1) NYK:010-101-0006 Power supply module
  - (1) NYK:010-101-0002 Display module
  - (1) NYK:010-101-0003 CPU module
  - (1) NYK:010-101-0004 Vital input module
  - (1) NYK:010-101-0009 Vital I/O module
  - (1) NYK:010-101-0008 Communications module
NYK:017-100-0001

E1400S (4) Channel Presence Detector
- Weight is approx. 1.0 lbs. (0.56 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity

List Price $9,169.00

NYK:017-101-0001

P1400 (4) Channel Presence Detector
- Weight is approx. 1.0 lbs. (0.56 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity

List Price $5,251.00
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<td><strong>Power Supply Module</strong></td>
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<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
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<td>-40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity</td>
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<td><strong>Display Module</strong></td>
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<td><strong>CPU Module</strong></td>
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<tr>
<td>Temperature Range</td>
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<td><strong>Vital Input Module</strong></td>
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<td>-40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity</td>
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**List Prices:**
- EGMS Power Supply Module: $5,305.00
- EGMS Display Module: $5,305.00
- EGMS CPU Module: $5,255.00
- EGMS Vital Input Module: $4,519.00
### Preformed loops and accessories

<table>
<thead>
<tr>
<th>SIEMENS</th>
<th>Description</th>
<th>List Price</th>
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</thead>
<tbody>
<tr>
<td>NYK:PLC-24-50</td>
<td>24' (7.3 m) long x 50' (15.2 m) wide</td>
<td>$1,078.00</td>
</tr>
<tr>
<td>NYK:PLC-26-50</td>
<td>26' (7.9 m) long x 50' (15.2 m) wide</td>
<td>$1,103.00</td>
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<tr>
<td>NYK:PLC-28-50</td>
<td>28' (8.5 m) long x 50' (15.2 m) wide</td>
<td>$1,128.00</td>
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<tr>
<td>NYK:PLC-30-50</td>
<td>30' (9.1 m) long x 50' (15.2 m) wide</td>
<td>$1,153.00</td>
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<tr>
<td>NYK:PLC-32-50</td>
<td>32' (9.8 m) long x 50' (15.2 m) wide</td>
<td>$1,178.00</td>
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<tr>
<td>NYK:PLC-34-50</td>
<td>34' (10.4 m) long x 50' (15.2 m) wide</td>
<td>$1,203.00</td>
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<tr>
<td>NYK:PLC-36-50</td>
<td>36' (11.0 m) long x 50' (15.2 m) wide</td>
<td>$1,228.00</td>
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<tr>
<td>NYK:PLC-38-50</td>
<td>38' (11.6 m) long x 50' (15.2 m) wide</td>
<td>$1,253.00</td>
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<tr>
<td>NYK:PLC-40-50</td>
<td>40' (12.2 m) long x 50' (15.2 m) wide</td>
<td>$1,278.00</td>
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<tr>
<td>NYK:PLC-50-50</td>
<td>50' (15.2 m) long x 50' (15.2 m) wide</td>
<td>$1,403.00</td>
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<tr>
<td>NYK:017-107-0001</td>
<td>Ø3/8&quot; 4C #18 AWG RR-418 cable, double jacketed, per linear foot</td>
<td>$8.16</td>
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<td>NYK:07-020-011</td>
<td>Ø3/4&quot; 4C #18 AWG RR-418 cable, triple jacketed, per linear foot</td>
<td>$9.37</td>
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<td>NYK:03-094-005</td>
<td>Home run cable</td>
<td>$15.91</td>
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### Accessories and Dimensions

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<tr>
<th>SIEMENS Part Number</th>
<th>Description</th>
<th>List Price</th>
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<tbody>
<tr>
<td>NYK:03-083-003</td>
<td>TB-2 Wago® terminal strip for 1st and 2nd presence detectors</td>
<td>$655.00</td>
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<tr>
<td>NYK:03-083-004</td>
<td>TB-4 Wago® terminal strip for 3rd and 4th presence detectors</td>
<td>$335.00</td>
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<td>NYK:07-020-006</td>
<td>Presence detector cable harness kit</td>
<td>$2,892.24</td>
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<tr>
<td>NYK:018-100-0001</td>
<td>Aluminum foundation mounted junction box</td>
<td>$797.22</td>
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<tr>
<td>NYK:018-101-0001</td>
<td>Aluminum pedestal mounted junction box</td>
<td>$986.74</td>
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<tr>
<td>NYK:04-004-005</td>
<td>1&quot; NPT hub gland plate</td>
<td>$43.79</td>
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*Applicable for all Wayguard® Exit Gate Management System EGMS Series assemblies*

**Accessories and Dimensions**

- **17" (43.18 cm) Overall**
- **11" (27.94 cm) Overall**

---

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Overview

Model A81000 Wayside Inspector Unit shown for reference purposes only! Actual unit selected may vary in mounting and features.

SIEMENS Wayside Inspector Unit automates periodic inspection of crossings such as monitoring the state of discrete I/O signals, battery voltages and AC power. From that information, it analyzes the operation of the grade crossing’s warning systems and provides a means for inspection of those systems.

It can send alarms and inspection report logs to a backoffice system or can interact thru a web browser to allow field personnel to adjust system settings, view statuses etc.

Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>NYK:800081000001</td>
<td>Wayside Inspector Unit</td>
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<tr>
<td>NYK:Z921004070000</td>
<td>WiMag VSN240-F Sensor</td>
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<tr>
<td>NYK:Z927004220000</td>
<td>WiMag Repeater Unit</td>
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<tr>
<td>NYK:Z927004210000</td>
<td>Access Point Base Station</td>
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Overview

The SIEMENS Wayguard® Solid State Crossing Controller (SSCC) Series offers reliable and simple crossing control without breaking the bank.

All parameters are easily set using built-in liquid crystal display (LCD) screen and pushbuttons as well as protected against unauthorized changes using available password protection. Alternatively, passwords can also be uploaded or downloaded via computer.

With built-in logic you can control a crossing more reliably and more cost effectively with greater flexibility. Eliminate need for relays and related wiring using the built-in standardized logic, which can be customized to accommodate a vast array of crossing configurations.

Features

- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable vital control inputs. Up to (8) including (1) input for gate position.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- Optional synchronized lamp flashing of multiple units.
- Optional loss of shunt selection with configurable timers.
- Non Volatile Real-Time Clock.
- Expanded menu system includes pre-emption output drive logic.
- "SERVICE" menu option to program Out-of-Service timers. (Available on select models)
- Communications via ATCS. (Available on select models)

5 built in test modes

- Lamps Steady - Allows the maintainer to continuously light a lamp for alignment purposes.
- Flash Lamps - Allows the maintainer to flash a lamp to ensure it is working.
- Timed Lamps- Allows the maintainer to set a timing sequence that will flash a lamp for "X" seconds.
- Timed Lamps Repeat - Allows the maintainer to set a timing sequence that will flash a lamp for "X" seconds after "Y" and "2Y" delay.
- Activate Crossing - Allows the maintainer to activate a crossing in a controlled manner.

Model A91160 - [40 Amp] Isolated gate return version shown for reference purposes only! Actual unit selected may vary in mounting and features.
Easily mountable on 19" (48.3 cm) racks.
- Weight is approx. 9.6 lbs. (4.32 kgs.) including connectors.
- Quiescent power consumption is approx. 0.75 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (1) gate control output
- (1) bell output
- (1) pair of lamp outputs (up to 20 amp load)

Easily mountable on 23" (58.4 cm) Mounting Rack
- Weight is approx. 9.8 lbs. (4.44 kgs.) including connectors.
- Quiescent power consumption is approx. 0.75 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (1) gate control output
- (1) bell output
- (1) pair of lamp outputs (up to 20 amp load)

Easily mountable on 19" (48.3 cm) racks.
- Weight is approx. 11.2 lbs. (5.08 kgs.) including connectors.
- Quiescent power consumption is approx. 0.95 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (2) gate control outputs
- (2) bell outputs
- (2) pairs of lamp outputs (up to 20 amp load)

Easily mountable on 23" (58.4 cm) Mounting Rack
- Weight is approx. 11.4 lbs. (5.13 kgs.) including connectors.
- Quiescent power consumption is approx. 0.95 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (2) gate control outputs
- (2) bell outputs
- (2) pairs of lamp outputs (up to 20 amp load)
Wayguard® SSCC III PLUS Series - Solid State Crossing Controllers

Assemblies

NYK:9000911951101

- Easily mountable on 19" (48.3 cm) racks.
- Weight is approx. 9.6 lbs. (4.32 kgs.) including connectors.
- Quiescent power consumption is approx. 0.75 A
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (1) gate control output
- (1) bell output
- (1) pair of lamp outputs (up to 20 amp load)
- “Service” out of service timers

List Price $ 6,082.00

NYK:9000911901101

- Easily mountable on 19" (48.3 cm) racks.
- Weight is approx. 11.2 lbs. (5.08 kgs.) including connectors.
- Quiescent power consumption is approx. 0.95 A
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (2) gate control outputs
- (2) bell outputs
- (2) pairs of lamp outputs (up to 20 amp load)
- “Service” out of service timers

List Price $ 7,327.00

NYK:9000911950101

- Easily mountable on 23" (58.4 cm) Mounting Rack
- Weight is approx. 9.8 lbs. (4.44 kgs.) including connectors.
- Quiescent power consumption is approx. 0.75 A
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (1) gate control output
- (1) bell output
- (1) pair of lamp outputs (up to 20 amp load)
- “Service” out of service timers

List Price $ 6,082.00

NYK:9000911900101

- Easily mountable on 23" (58.4 cm) Mounting Rack
- Weight is approx. 11.4 lbs. (5.13 kgs.) including connectors.
- Quiescent power consumption is approx. 0.95 A
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (2) gate control outputs
- (2) bell outputs
- (2) pairs of lamp outputs (up to 20 amp load)
- “Service” out of service timers

List Price $ 7,327.00

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<td>![Image]</td>
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- Easily mountable on 19” (48.3 cm) racks.
- Weight is approx. 9.6 lbs. (4.32 kgs.) including connectors.
- Quiescent power consumption is approx. 0.75 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (1) gate control output
- (1) bell output
- (1) pair of lamp outputs (up to 20 amp load)
- “Service” out of service timers
- Communications via ATCS available

- Easily mountable on 19” (48.3 cm) racks.
- Weight is approx. 11.2 lbs. (5.08 kgs.) including connectors.
- Quiescent power consumption is approx. 0.95 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (2) gate control outputs
- (2) bell outputs
- (2) pairs of lamp outputs (up to 20 amp load)
- “Service” out of service timers
- Communications via ATCS available

| **NYK:9000912150101** | **NYK:9000912100101** |
| ![Image] | ![Image] |
| **NYK:9000912150101** | **NYK:9000912100101** |

- Easily mountable on 23” (58.4 cm) Mounting Rack
- Weight is approx. 9.8 lbs. (4.44 kgs.) including connectors.
- Quiescent power consumption is approx. 0.75 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (1) gate control output
- (1) bell output
- (1) pair of lamp outputs (up to 20 amp load)
- “Service” out of service timers
- Communications via ATCS available

- Easily mountable on 23” (58.4 cm) Mounting Rack
- Weight is approx. 11.4 lbs. (5.13 kgs.) including connectors.
- Quiescent power consumption is approx. 0.95 A
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Echelon® connectivity for communicating recorder and diagnostic information.
- Programmable loss of shunt timers for each input.
- Programmable low battery indication threshold.
- Programmable lamp flash rate.
- (2) gate control outputs
- (2) bell outputs
- (2) pairs of lamp outputs (up to 20 amp load)
- “Service” out of service timers
- Communications via ATCS available

<table>
<thead>
<tr>
<th>List Price</th>
<th>List Price</th>
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<tbody>
<tr>
<td>$7,054.00</td>
<td>$8,499.00</td>
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**Wayguard® SSCC IV Series** - Solid State Crossing Controllers
Applicable for all Wayguard® Solid State Crossing Controller SSCC Series assemblies

Mounting Rack Baseplate Overall
19" Rack: 19" (48.3 cm)
23" Rack: 23" (58.4 cm)

Mounting Rack Baseplate Mounting Holes
19" Rack: 18 5/16" (46.5 cm)
23" Rack: 22 5/16" (56.7 cm)

Overall w/ Connectors
4 7/8" (12.4 cm)
4 1/8" (10.5 cm)

Height
5.88" (14.9 cm)
8.72" (22.2 cm)
<table>
<thead>
<tr>
<th>Model</th>
<th>SSCC III A</th>
<th>SSCC III PLUS</th>
<th>SSCC IV</th>
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<tr>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>Programmable Loss of Shunt Timers</td>
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<td>Programmable Vital Control Inputs</td>
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<td>Programmable Low Battery Indicator</td>
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<td>Programmable Lamp Flash Rate</td>
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<tr>
<td>Non Volatile Real-Time Clock</td>
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<tr>
<td>Inbuilt onboard Application Configurations</td>
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<td>“SERVICE” Out of Service Timers</td>
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<tr>
<td>Communication Via ATCS</td>
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</table>
The SIEMENS Wayguard® Argus Event Recorder Series offers reliable and simple comprehensive monitoring, recording, reporting and alarm generation in one compact simple to install, simple to use unit without breaking the bank.

Immediately reporting anomalies to the where the client’s maintainers’ specify in order to investigate and maintain.

- Provides full monitoring, recording and reporting functions for most standard crossing configurations without the need for any other modules, except for light-out detectors or other optional supported devices (check with SIEMENS Technical Assistance for Rail Automation Team for which other devices are currently supported).

- Allows the railroad to have recorded proof-of-crossing operation. The log from the recorder contains anti-tampering information. Any editing of this log will be obvious to an auditor.

- Provides a user-friendly platform for site configuration and log retrieval, without the need for special hardware or software, via a USB 2.0 flash drive.

- Provides notification of alarm conditions to the Wayside Alarm Management System (WAMS) over a variety of communication networks (check with SIEMENS Technical Assistance for Rail Automation Team for the networks and protocols currently supported).

- Available with either SIEMENS proprietary silkscreening of predetermined events or inputs or a non proprietary silkscreening offering generic descriptions instead.
NYK:8000803110001

- Weight is approx. 2.8 lbs. (1.27 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Proprietary silkscreen overlay
- Basic CDL program
- (1) Ethernet port
- NO GPS capability
- NO accessory kit

NYK:8000803110003

- Weight is approx. 2.8 lbs. (1.27 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Non proprietary silkscreen overlay
- Basic CDL program
- (1) Ethernet port
- NO GPS capability
- NO accessory kit

NYK:8000803110004

- Weight is approx. 2.8 lbs. (1.27 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Proprietary silkscreen overlay
- Basic CDL program
- (1) Ethernet port
- GPS capability
- NO accessory kit

NYK:8000803110006

- Weight is approx. 2.8 lbs. (1.27 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Non proprietary silkscreen overlay
- Basic CDL program
- (1) Ethernet port
- GPS capability
- NO accessory kit
Preconfigured GPS Accessory Kits

<table>
<thead>
<tr>
<th>SIEMENS Part Number</th>
<th>Description</th>
<th>List Price</th>
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<tr>
<td>NYK:800026760001</td>
<td>(2) 6' (1.8 m) Antenna / Surge cables, (1) SMA/M adapter, (1) DC Arrester</td>
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<tr>
<td>NYK:800026760002</td>
<td>(1) 6' (1.8 m) Antenna / Surge cable, (1) 15' (4.6 m) Antenna / Surge cable,</td>
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<td>(1) SMA/M adapter, (1) DC Arrester</td>
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<tr>
<td>NYK:800026760003</td>
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<tr>
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<td>(1) 6' (1.8 m) Antenna / Surge cable, (1) 50' (15.2 m) Antenna / Surge cable,</td>
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<tr>
<td></td>
<td>(1) SMA/M adapter, (1) DC Arrester</td>
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<tr>
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<td></td>
<td>(1) SMA/M adapter, (1) DC Arrester</td>
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<tr>
<td>NYK:800026760008</td>
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<tr>
<td></td>
<td>(1) SMA/M adapter, (1) DC Arrester</td>
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</tr>
<tr>
<td>NYK:800026760011</td>
<td>(2) 30' (9.2 m) Antenna / Surge cables, (1) SMA/M adapter, (1) DC Arrester</td>
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</table>
Overview

SIEMENS has developed a new generation of track vacancy detection systems that utilize an intelligent module system configuration using Ethernet. The Clearguard® ACM 200 axle counting system is made up of maintenance-free ACM 200 modules, which are programmed using an ID plug and connected to the axle counting heads of the Clearguard® ZP D 43 via an f1 / f2 interface which combines frequency and amplitude modulation.

Components

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<tr>
<th>SIEMENS Part Number</th>
<th>Description</th>
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<tr>
<td>NYK:680001-0040</td>
<td>ZP D 43 Wheel Detector</td>
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<td>NYK:680001-0019</td>
<td>ACM 200 ID Plug Module</td>
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<tr>
<td>NYK:680001-0083</td>
<td>SIPLUS SCALANCE X208 Ethernet Switch</td>
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<tr>
<td>NYK:6ES57108MA31</td>
<td>SIMATIC S7-300 Controller</td>
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</table>

ACM 200 shown for reference purposes only!
Actual unit selected may vary in mounting and features.
SIEMENS SEAR II Event Analyzer / Recorder model A80273 shown for reference purposes only! Actual unit selected may vary in mounting and features.

Railroads have a duty of care to ensure that grade crossings operate safely. SIEMENS Wayguard® SEAR II Series Event Analyzer / Recorders immediately report anomalies to the where the client’s maintainers’ specify in order to investigate and maintain.

Offering reliable and simple comprehensive monitoring, recording, reporting and alarm generation in one compact simple to install, simple to use unit without breaking the bank.

Microprocessor controlled non-vital, stand alone alarm management system designed to provide continuous real-time general purpose status monitoring and event recording for a wide range of functions associated with grade crossings.

- 24 x 7 monitoring and fault reporting.
- Echelon® connectivity for communicating recorder and diagnostic information.
- Non-contact detection of flashing lamps. (Can detect a single failure within a lamp bank when SIEMENS Intelligent Lights Out Detector (ILOD) is installed)
- Isolated monitoring of up to 18 separate digital points.
- Isolated monitoring of 3 analog points. (such as a battery)
- Configurable dry contact outputs for remote testing.
- Configurable internal logic to discriminate faults from normal operation.
- Configurable maintainer call on real alarms.
- Can be remotely interrogated.
- Direct interface to Grade Crossing Predictors (such as a SIEMENS Wayguard® GCP 4000 Series model)
- Connects to analogue and digital expansion modules for even larger systems.
- Stores up to 150,000 events (Up to 400,000 with extended memory module)
- Intranet or internet access.
- Push alarms to nominated staff.
- Shelf or rack mountable.
NYK:8000802730001

SEAR w/o Internal Expansion Module
- Weight is approx. 5.8 lbs. (2.63 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Executive program installed

NYK:8000802730002

SEAR w/ Internal Expansion Module
- Weight is approx. 5.8 lbs. (2.63 kgs.)
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- Executive program installed

Applicable for all Wayguard® SEAR II Series Event Analyzer / Recorder assemblies

18.31" (46.50 cm)
Center to Center

17.38" (44.15 cm)
Chassis

4.88" (12.4 cm)
Overall w/ Connectors

1.8" (4.5 cm)

5.75" (14.61 cm)
Center to Center

8.50" (21.59 cm)

19.00" (48.26 cm)
Overall
### Analog I/O Expansion Module
- Weight is approx. 1.6 lbs. (0.73 kgs.)
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Executive program installed
- Internally installed in SEAR II

### Digital I/O Expansion Module
- Weight is approx. 5.4 lbs. (2.45 kgs.) including connectors
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Able to monitor up to (24) external digital inputs
- Able to monitor up to (4) external analog inputs (including high and low voltage sensing)
- Able to monitor internal temperature
- Able to monitor battery sensor functions

### Analog Input Module
- Weight is approx. 5.4 lbs. (2.45 kgs.) including connectors
- Operates in -40°F to +160°F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity
- Able to monitor up to (4) external analog inputs (including high and low voltage sensing)
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<tr>
<th>Module Type</th>
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<tr>
<td>GCP to Echelon® Interface Module</td>
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<td>NYK:8000802910001</td>
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<tr>
<td>Weight is approx. 2.6 lbs. (1.18 kgs.)</td>
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<td>List Price $1,434.00</td>
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<tr>
<td>Communications Isolator Module</td>
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<td>Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity</td>
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<tr>
<td>Able to monitor up to (24) external digital inputs</td>
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<td>Able to monitor up to (4) external analog inputs (including high and low voltage sensing)</td>
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<tr>
<td>Able to monitor internal temperature</td>
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<tr>
<td>Able to monitor battery sensor functions</td>
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<tr>
<th>Module Type</th>
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<td>VHF Communicator</td>
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<td>NYK:8000802760002</td>
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<td>Weight is approx. 5.1 lbs. (2.31 kgs.)</td>
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<td>Able to monitor up to (24) external digital inputs</td>
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<td>Able to monitor internal temperature</td>
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<td>Able to monitor battery sensor functions</td>
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<td>SEAR transmit and receive indicators</td>
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<td>Able to monitor battery sensor functions</td>
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<tr>
<td>Console transmit and receive indicators</td>
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</tbody>
</table>
Overview

Model A8028S  
*shown for reference purposes only! Actual unit selected may vary in mounting and features.*

**SIEMENS** Mini Track Side Sensor (MTSS) interfaces with the various monitored signals via connector J1, a 12-pin, mass-terminated Eurostyle terminal block (board header and wiring plug), and provides LED indicators for power, when the gate is horizontal and the bell is ringing.

- Easily mountable on instrument house backboards.
- Weight is approx. 1.11 lbs. (0.50 kgs.) including connectors
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity

MTSS

Mini Track Side Sensor

<table>
<thead>
<tr>
<th>Part Number</th>
<th>List Price</th>
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<tbody>
<tr>
<td>NYK:8000802850001</td>
<td>$799.00</td>
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</table>

- **Overall** 9.5" (24.13 cm)
- **Overall** 1.75" (4.45 cm)
- **Center to Center** 8.75" (22.23 cm)
- **Center to Center** 4.2" (10.67 cm)
- **Center to Center** 4.82" (12.24 cm)
SIEMENS Intelligent Lights Out Detector (iLOD) adds programmable current sensing functionality to SIEMENS SEAR II/SEAR III Event Analyzer / Recorders.

Including (2) current sensing Hall-effect sensors with analog-digital conversion circuitry and it communicates with the SIEMENS SEAR II / SEAR III over the Echelon® network.

- Easily mountable on instrument house backboards.
- Quiescent power consumption is approx. 0.3 A @ 13.2 V, 0.4 A @ 9.0 V
- Weight is approx. 1.50 lbs. (0.68 kgs.) including connectors
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity

**Overview**

Model A80271 shown for reference purposes only!
Actual unit selected may vary in mounting and features.

**NYK:8000802710001**

- **Connector to Echelon® LAN Interface**
- **Hall Effect Sensors**
- **Power Indicator**

**Dimensions**

- Overall: 8.9” (22.61 cm)
- Center to Center: 8.25” (20.96 cm)
- Overall: 2.88” (7.32 cm)
- Overall: 1.75” (4.45 cm)

**List Price**

$785.00
SIEMENS GFT II Model A81010
shown for reference purposes only!
Actual unit selected may vary in mounting and features.

SIEMENS Ground Fault Tester (2nd Generation) GFT II Series can operate in two modes. In normal mode, the GFT II constantly monitors up to two batteries for ground faults and indicates battery fault status to the SIEMENS Wayguard® SEAR II Series Event Analyzer / Recorder if connected.

Information is provided to the SEAR II as a pulsed data signal via any unused digital input. The unit can also be placed in test mode where a simulated ground fault is placed internally on an isolated battery input to verify that the unit is properly detecting faults.

A separate internal circuit is used to verify the GFT II’s health, as indicated by the status of the GFT FAIL LED on the front panel.

The GFT II can be powered by a 9-30 VDC (12 VDC nominal) operating battery, or independently powered from a battery being monitored.

- Monitors leakage resistance between battery terminals and earth ground.
- Can be used as a stand alone monitor or in conjunction with SIEMENS Wayguard® SEAR II Series Event Analyzer / Recorders for recording ground fault events.
- (10) Second fault debounce circuitry.
- (2) dry relay contacts to 3rd party inputs.
- Up to (8) leakage current mode detection settings.
- Dipswitch configurable leakage thresholds.

Digital Inputs

- Monitors leakage resistance between battery terminals and earth ground.
- Can be used as a stand alone monitor or in conjunction with SIEMENS Wayguard® SEAR II Series Event Analyzer / Recorders for recording ground fault events.
- (10) Second fault debounce circuitry.
- (2) dry relay contacts to 3rd party inputs.
- Up to (8) leakage current mode detection settings.
- Dipswitch configurable leakage thresholds.
- Easily mountable on instrument house backboards.
- Quiescent power consumption is approx. 0.3 A @ 13.2 V, 0.5 A @ 9.0 V
- Weight is approx. 4.0 lbs. (1.81 kgs.) including connectors
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- For use with either 12 V or 16 V batteries
- Alarm threshold configurable from 1 mA to 4.5 mA
- NO ground integrity check feature

- Easily mountable on instrument house backboards.
- Quiescent power consumption is approx. 0.3 A @ 13.2 V, 0.5 A @ 9.0 V
- Weight is approx. 4.0 lbs. (1.81 kgs.) including connectors
- Operates in -40º F to +160º F (-40ºC to +70ºC) @ up to 95% Non-Condensing Relative Humidity
- For use with either 24 V batteries
- Alarm threshold configurable from 1 mA to 4.5 mA
- NO ground integrity check feature

Applicable for all GFT II Series Ground Fault Tester assemblies