

# IMPULSE® SWAY CONTROL SYSTEM SERIES 2

RETROFIT INSTALLATIONS

## ENHANCE CRANE OPERATION WITH MAGNETEK'S IMPULSE® SWAY CONTROL SYSTEM

Magnetek's IMPULSE® Sway Control System (SCS) Series 2 custom software can be added to any brand of existing bridge or trolley variable speed drive. This external retrofit system provides the benefit of sway control on an existing crane installation.

### IMPROVED SAFETY AND PERFORMANCE

- Improves productivity by allowing the crane operator to move loads at full speed and come to a stop without needing to wait for load sway to dampen
- Improves the accuracy of load placement
- Enhances operational safety by reducing the potential for personnel injuries and damaged equipment caused by accidental contact with swinging loads
- Reduces maintenance costs and downtime by decreasing stresses on structural, mechanical, and control components
- Decreases the training time required to learn how to handle a swinging load

### FLEXIBLE FEATURES MAKE IT EASY TO USE

- Available in single or dual motion sway control systems
- Use existing 120VAC master switch inputs
  - 24VDC, 24VAC, and 48VAC inputs optional (must be specified at time of order)
- Analog or digital hook height feedback input with hook attachment adjustments
- Analog or pulse train sway control frequency reference
- Compatible with almost any variable speed drive
- Reduce sway by 85-95%
- Take advantage of Magnetek Material Handling crane functions
  - Reverse Plug Simulation™
  - Quick Stop™
  - Micro-Speed™
  - Inching
- Enable or disable Sway Control at the radio transmitter or pendant station



**MAGNETEK**  
MATERIAL HANDLING

**ELECTROMOTIVE SYSTEMS**

YOUR ONE-STOP SOURCE FOR MATERIAL HANDLING CONTROL SOLUTIONS

With our combination of extensive application experience and leading-edge products, Magnetek provides the ultimate solution for overhead motion control.

## MINIMUM REQUIREMENTS

- Compatible with 2 to 5 speed multi-step or analog speed references
- Variable speed drive must have a 0-10V, +10/-10V, or pulse train 0-32 kHz analog input that can be programmed as a speed reference
- Ability to adjust acceleration, deceleration, and S-curve times to zero (or near zero)

## SPECIFICATIONS

|                                      |  |
|--------------------------------------|--|
| <b>Power Requirements</b>            | 230VAC, 460VAC, or 575VAC models available   |
| <b>Digital Inputs</b>                | Six multi-function 120VAC inputs per motion  |
| <b>Relay Outputs</b>                 | Three multi-function 120VAC form A outputs and one 120VAC form C fault output. Two are typically used as directional outputs |
| <b>Variable Hook Height Feedback</b> | Two 0-10VDC analog inputs (Main or Aux Hoist) or digital inputs can be used to improve sway reduction and crane performance  |
| <b>Enclosure</b>                     | NEMA 4/12 with screw latches   |
| <b>Operator Interface</b>            | 10-button keypad with LCD display mounted on the enclosure door  |
| <b>Ambient Operating Temperature</b> | -10° to 60°C (14° to 140°F)  |

## EXAMPLE APPLICATION BLOCK DIAGRAM



**For more information, contact Magnetek Material Handling or your local Magnetek Sales Representative.**



**ELECTROMOTIVE SYSTEMS**

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MH208\_Sway Control Retrofit Brochure  
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