CS1320
Collision Avoidance Module

Features/Benefits
- Prevents damage to mobile carts
- Prevents damage to facility or people
- Directly coupled to motor controller
- Field retrofittable module
- Customizable housing and mounting

Description
The Collision Avoidance System (CAS) is an add-on module for battery-operated motorized platforms such as industrial carts and mobility scooters.

The CAS provides added safety for both the platform and operator (or the scooter and driver) by automatically commanding the vehicle’s motor controller to safely slow or come to a full stop before a collision.

The CAS provides that same level of safety to persons or walls/obstacles in a facility by detecting moving or still objects and automatically signaling the cart to slow or stop before hitting the obstacle.

About Us
We solve the world’s toughest motion control challenges, providing custom solutions focusing on personal mobility and patient transportation products as well as many commercial applications. For over 20 years, Control Solutions LLC has developed a wide array of microprocessor-based control and battery charging solutions designed for flexible integration, feature-rich functionality, and robust performance.

CAS keeps your expensive equipment safe from damage.

Visit our website: www.controls.com
### CS1320 Collision Avoidance Module

#### Specifications

<table>
<thead>
<tr>
<th>CS1320 Specifications</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>CAS module power</td>
<td>12VDC</td>
<td>24 volts</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Operating Temperature – °F (°C)</td>
<td>-40 (-40)</td>
<td>77 (25)</td>
<td>113 (45)</td>
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<tr>
<td>Number of Sensors</td>
<td>2</td>
<td>1-4</td>
<td></td>
</tr>
<tr>
<td>Sensor mounting</td>
<td>25mm hole</td>
<td></td>
<td></td>
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<tr>
<td>Detection Range, feet (meter)</td>
<td>4 (1.22)</td>
<td>1-5 (.30- 1.52)</td>
<td></td>
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<tr>
<td>Physical Size – CAS module unspotted PC board, Inches (mm)</td>
<td>2.9 x 2.2 x .60 (73 x 55 x 15)</td>
<td></td>
<td></td>
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<tr>
<td>PCB Weight, lbs (Kg)</td>
<td>.057 (.026)</td>
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Note: The CAS module is custom-designed to fit within different platforms and can be mounted in a housing or directly into product.

#### CS1320 diagram

- **Motor Controller**: Commanded to **Slow/Stop**
- **CAS Module**: Scalable to different platforms
- **Sensor(s)**: Adjustable range

Specifications subject to change without notice.