Thank you very much for selecting Autonics products.

For your safety, please read the following before using.

### Safety Considerations

1. **Caution**: Failure to follow these instructions may result in personal injury or product damage.

### Applications

Autonics photoelectric sensors are suitable for use in the following applications:

- Safety Interlocks
-的位置・Short-circuiting
- Collision Avoidance
- Detection
- Sorting
- Detection
- Automatic Control
- Light-shielding
- Positioning
- Counting
- Speed Detection
- Stopping

### Specifications

#### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR100</td>
<td>100mm</td>
<td>24mm</td>
<td>85mm</td>
<td>160g</td>
</tr>
<tr>
<td>BR200</td>
<td>200mm</td>
<td>24mm</td>
<td>85mm</td>
<td>160g</td>
</tr>
<tr>
<td>BR3M</td>
<td>75mm</td>
<td>20mm</td>
<td>50mm</td>
<td>120g</td>
</tr>
</tbody>
</table>

#### Installation and Sensitivity Adjustment

1. **Mounting**: Ensure the photoelectric sensor is securely mounted to prevent misalignment.

2. **Sensitivity**: Adjust the sensitivity to achieve a balance between detection and noise reduction.

3. **Power Supply**: Ensure the power supply is compatible with the sensor's specifications.

### Control Output Circuit Diagram

- **Transistor Output Circuit**: Suitable for driving relays and small motors.
- **Solid State Relay Output Circuit**: Suitable for driving high-power loads.

### Major Products

- **Photoelectric Sensors**: Available in a variety of types and models.
- **Temperature/Humidity Transducers**: Ideal for monitoring environmental conditions.
- **Temperature Controllers**: Precise control of temperature settings.
- **Power Supplies**: Essential for powering various devices.
- **Field Network Devices**: Connectivity solutions for industrial environments.
- **Area Sensors**: For detecting objects in specific areas.
- **Door Sensors**: Suitable for door access control systems.
- **Fiber Optic Sensors**: For applications requiring high-speed data transmission.
- **Optical Axis**: Essential for aligning the sensor's optical path.

### Caution for Using

- **Use of Power Supply**: Ensure the power supply is within the specified range.
- **Use of Sensor**: Do not use the sensor in hazardous environments or for applications requiring extremely high reliability.
- **Maintenance**: Regular maintenance is recommended to ensure optimal performance.

### Notes

- **Application Notes**: Detailed guidelines for specific applications.
- **System Design**: General advice for system design considerations.

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*This information is intended for product management of through-beam type.

*This information is not required when ordering a model.*