FACTORY AUTOMATION

SENSING TAKES SHAPE WITH RLG28

RETROREFLECTIVE AREA SENSORS

PEPPERL+FUCHS
SENSING YOUR NEEDS
RLG28 series retroreflective area sensors are used to detect objects, especially their leading edges, regardless of position, shape, or texture. They offer a simple, fast, affordable, and consistent way to sense compared to a thru-beam light grid or multiple single-beam sensors.

Retroreflective area sensors contain multiple transmitter and receiver elements in one housing aimed at a reflector, resulting in a continuous height or width detection field over the entire distance from the sensor to the reflector. When the light beam is obstructed, the sensor's output changes state.

**BENEFITS**

- More detection coverage than single-beam sensors
- More cost-effective than a thru-beam light grid or an array of single-beam sensors
- Reliable detection of objects regardless of shape, position, or surface
- Constant resolution over entire sensing range and detection field
- Low temperature operation down to -30°C (-22°F)
- Exclusive 4-in-1™ output technology to reduce inventory costs
- Built-in cross-talk protection
- Mounts and wires same as single-beam sensors
- Highly visible transmitter LEDs for alignment ease
- Bright, enhanced function LEDs indicate sensor status

**TYPICAL APPLICATIONS**

- Leading edge detection of various pallet types
- Overhang control (detection of pallet protrusion)
- Detection of irregular or undefined edges (bags)
- Sense objects with variable positions (board bouncing along conveyor)
- Detection of objects with changing shapes or heights (pouches)
- Verify presence of objects with changing texture (wrapped cases, soiled trays)
- Ejection control (sensing falling objects)
- Muting function for use with safety light curtains

While single-beam sensors (top) can detect a passing object's leading edge at different points based on where the light spot is positioned, RLG28 retroreflective area sensors (right) consistently monitor the true leading edge of objects.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>RLG28-55/40a/73c/136</th>
<th>RLG28-55/40a/115b/136</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensing Range</td>
<td>0 m - 4 m</td>
<td></td>
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<tr>
<td>Reflector Distance</td>
<td>0.2 m - 4 m</td>
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<tr>
<td>Resolution</td>
<td>12 mm across entire sensing range</td>
<td>60 mm across entire sensing range</td>
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<tr>
<td>Detection Field</td>
<td>4-in-1™</td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>Integral M12 quick-disconnect</td>
<td>Pigtailed M12 quick-disconnect</td>
</tr>
<tr>
<td>Connection</td>
<td>Integral M12 quick-disconnect</td>
<td>Pigtailed M12 quick-disconnect</td>
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</tbody>
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Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—wherever you need us.