LRD SENSORS

PRECISION LABEL SENSORS

Label Edge Detection
Splice Detection
Tear-tape Detection
High Speed
Customizable Solutions
Off the Shelf
Optics-free sensing technology is at the heart of an LRD clear label sensor. They see labels regular “eyes” cannot see. This improved technology also makes them more precise and much faster than traditional label sensors — even on ordinary paper labels. More than 50,000 LRD label sensors are installed across the globe and testify to their accuracy and reliability.

**LABEL SENSING**
Capacitive label sensing measures thickness change between the label and backing material.

**VISUAL INSPECTION**
High speed visual inspection machines can move at a rate of 300 meters/min. At these speeds, registration errors for traditional sensors can become an issue, even on paper labels.

**SPLICE DETECTION**
See-through solid or films. LRD's will sense splices or hidden materials not measurable with photo eyes.

**ADHESIVE DETECTION**
Easily detect the presence or absence of adhesive. With a fast triggering speed and no need for visual inspection, get the job done quickly and reliably with an LRD.

**EDGE TRACKING**
Use LRD's to track the edge of your web. The information provided from our sensor will allow you to set maximum travel tolerances for your web, preventing costly downtime for repair. Use LRD outputs to steer your web back on track when it wanders.
PRECISION LABEL SENSORS

**LRD6300**
High-Speed Accuracy, One-Button Setup
The finest clear label sensor for reliable, easy-to-set label sensing on applicators and slitter/rewinders.

**LRD2100**
Capacitive Label Sensor for Metal-Free Labels
The world’s first clear label sensor. Optics-free capacitive sensing does not require a change in color or contrast to sense labels.

**LRD3120**
Clear Label Technology for Small Spaces
Same great performance as the LRD2100 in smaller spaces. Very small sensor head for mounting in tight spaces.

**LRD8200**
Ultrasonic Technology for Every Label Type
Ultrasonic technology provides accurate sensing of any type of label. Wide fork for booklets and easy web threading.

**Lion Eye2**
Traditional Non-Clear Labels
The LionEye2 offers the same reliability all LRD sensors provide for traditional, non-clear labels. MB connector only.

**LRD5100**
Tear-Tape Sensor
The LRD5100 senses the presence or absence of tear-tape on overwrap film. Works with all tear-tape materials and nonmetallic overwrap.

**LRD3100**
Clear Label Technology for Small Spaces
Same great performance as the LRD2100 in smaller spaces. Sensor head can be used with supplied baseplate or a baseplate can be designed into the machinery.

**LRD900**
Traditional Non-Clear Labels
The LRD900 offers the same reliability all LRD sensors provide for traditional, non-clear labels. MB connector only.

Need assistance? Please contact Lion Precision at 651.484.6544 or info@lionprecision.com
# PRODUCT SELECTION GUIDE

## Product Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Integral Cable</th>
<th>M8 Connector</th>
<th>M12 Connector</th>
<th>Technology</th>
<th>Adjustment Type</th>
<th>Bar Graph Display</th>
<th>Selectable Light/Dark Display</th>
<th>Outputs</th>
<th>Power In</th>
<th>Operating Temperature</th>
<th>Max Response Time</th>
<th>Max Switching Freq.</th>
<th>Accuracy @ 60 m/min</th>
<th>Accuracy @ 250 m/min</th>
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<tr>
<td></td>
<td>P017-990</td>
<td></td>
<td>P017-9901</td>
<td>Capacitive</td>
<td>Screw</td>
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<td>Wired</td>
<td>NPN &amp; PNP</td>
<td>12 - 24 VDC</td>
<td>40 - 140 F (4 - 60 C)</td>
<td>20 μS</td>
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<td>0.002 in (0.05 mm)</td>
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## Typical Sensing Processes

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<tr>
<th>Label</th>
<th>Clear</th>
<th>High-Carbon Black Ink</th>
<th>Metallic Ink</th>
<th>Paper</th>
<th>Hologram</th>
<th>Hot Stamp</th>
<th>Solid Foil &amp; Metal</th>
<th>Hole Detection</th>
<th>Tear-Tape</th>
<th>Multiple Film Layers</th>
<th>Slitter/Rewinder</th>
<th>Splice Detection</th>
<th>Glue &amp; Adhesives</th>
<th>Edge Tracking</th>
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## Manual Number

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<th>M017-9930</th>
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<th>M017-9950</th>
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<th>M017-3775</th>
<th>M017-9890</th>
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<td></td>
<td>7166 4th Street N. Oakdale, MN 55128</td>
<td>T: 651.484.6544</td>
<td>F: 651.484.6824</td>
<td><a href="mailto:info@lionprecision.com">info@lionprecision.com</a></td>
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