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ÉLECTRONIQUE

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PRECISION LABEL SENSORS



Optics-free sensing technology is at the heart of an LRD clear label sensor. They see labels regular "eyes" can't 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 sensing measures the displacement of the labels to determine location of the leading edge of the label.



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.



Registration Sensing

See-through solid films. LRD's will measure any changes, even those not measurable with traditional photo eyes. Know where your leading edge is to control production of a hidden material.



Adhesive LRD

Easily detect the presence or absence of an 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 conveyer system. The information provided from our sensor will allow you to set maximum travel tolerances for your belt, preventing costly downtime for repair. Use LRD outputs to steer your conveyer back on track when it wanders.



LRD2100

The Sensor that Started a Revolution

The world's first clear label sensor. Optics-free, capacitive sensing does not require changes in color or contrast to sense labels.





LRD6300

High-Speed Accuracy, One-Button setup

The finest clear label sensor for reliable, easy-to-set label sensing on applicators and slitter/rewinders.





LRD8200

Ultrasonic Technology for Ever Label Type

Ultrasonic technology provides accurate sensing of any type of label. Wide fork for booklets and easy web threading.



LRD900

Traditional, Non-Clear Labels

The LRD900 offers the same reliability all LRD sensors provide for traditional, non-clear labels.

M8 connector only.



SPECIALIZED VERSION

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 system can be designed into the machinery.



SPECIALIZED REMOTE SENSOR

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.



SPECIALIZED VERSION

LRD5100

Tear-Tape Sensor

The LRD5100 senses the presence/absence of teartape on overwrap film. Works with all tear-tape materials and nonmetallic overwrap.



LionEye2

Traditional, Non-Clear Labels

The LionEye2 offers the same reliability all LRD sensors provide for traditional, non-clear labels.

M8 connector only.

ACCESSORIES

B016-8341

Extended Base Plate for LRD 8200



P016-6090

Mounting Adapter for LRD 8200

Product Number_________To determine the correct product number, select your criteria from left to right on the chart below.

| SELECTION GUIDE | | | 2100 P017-9900 | 3100 P017-9932 | 3120 P017-9921 | 5100 P017-9950 | 6300 P017-6300 | 8200 P016-6100 | LionEye2 P015-3775 | 900 P017-9890 |
|---------------------------|-------------------|-----------------------------------|---------------------------------------|--------------------------|------------------------|--------------------------|--------------------------|------------------------|------------------------------|-------------------------|
| TECHNICAL SPECIFICATIONS | MODEL | Integral Cable | LRD2100 | LRD3100 | LRD3120 | LRD5100 | LRD6300 | | | |
| | | M8 Connector | | | | | | | P015-3775 | P017-9890 |
| | | M12 Connector | LRD2100C | | | LRD5100C | LRD6300C | LRD8200 | | |
| | HARDWARE | Technology | Capacitive | Capacitive | Capacitive | Capacitive | Capacitive | Ultrasonic | Optical | Optical |
| | | Adjustment Type | Screw | Screw | Screw | Screw | Button | Button | Button | Screw |
| | | Bar Graph Display | | | | | / | 1 | | |
| | | Selectable Light/ Dark Display | Wired | Wired | Wired | Wired | Button | Button | Wired | Wired |
| | | Outputs | NPN and PNP | NPN and PNP | NPN and PNP | NPN and PNP | NPN and PNP | NPN and PNP | NPN and PNP | NPN and PNP |
| | | Power In | 12 to 24 VDC | 12 to 24 VDC | 12 to 24 VDC | 12 to 24 VDC | 12 to 24 VDC | 12 to 24 VDC | 12 to 30 VDC | 10 to 30 VDC |
| | | Operating Temperature | 40°-140°F (4°-60°C) | 40°-140°F (4°-60°C) | 40°-140°F (4°-60°C) | 40°-140°F (4°-60°C) | 40°-140°F (4°-60°C) | 40°-140°F (4°-60°C) | 40°-120°F (4°-50°C) | 32°-140°F (-4°-60°C) |
| | PERFORMANCE | Max Response Time | 20 μS | 20 μS | 20 μS | 20 μS | 15 µS | 425 μS | 50 μS | 50 μS |
| | | Max Switching Freq. | 10 kHz | 10 kHz | 10 kHz | 10 kHz | 10 kHz | 1 kHz | 10 kHz | 10 kHz |
| | | Accuracy @ 60 m/min | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.006 in (0.15 mm) | 0.008 in (0.20 mm) | 0.008 in (0.20 mm) |
| | | Accuracy @ 250 m/min | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.002 in (0.05 mm) | 0.024 in (0.60 mm) | 0.008 in (0.20 mm) | 0.008 in (0.20 mm) |
| TYPICAL SENSING PROCESSES | | Clear | 1 | 1 | 1 | | / | / | | |
| | LABEL | High-Carbon Black | · · · · · · · · · · · · · · · · · · · | · · · · · · | <u> </u> | | / | / | | |
| | | Ink Metallic Ink | | | | | / | / | Nonclear | Nonclear |
| | | Paper | 1 | 1 | 1 | | / | / | / | ✓ |
| | | Hologram | · · | 1 | √ · | | / | / | • | - |
| | | Hot Stamp | | | | | / | / | Nonclear | Nonclear |
| | | Solid Foil & Metal | | | | | Most | / | 1 | / |
| | REGIS- TRATION | Hole Detection | 1 | 1 | 1 | | / | 1 | Nonclear | Nonclear |
| | | Tear-Tape | | | | / | | | | |
| | | Multiple Film Layers | | | | | 1 | | | |
| | INSPECTION | Slitter/Rewinder | ✓ | ✓ | ✓ | | 1 | 1 | | |
| | | Splice Detection | 1 | 1 | 1 | | / | 1 | Nonclear | Nonclear |
| | | Glue & Adhesives | ✓ | ✓ | 1 | ✓ | 1 | | | |
| | | Edge Tracking | | | | | 1 | | | |
| MANUAL NUMBER | | | M017-9900 | M017-9930 | M017-9920 | M017-9950 | M017-6300 | M016-6100 | M015-3775 | M017-9890 |

Need assistance? Contact Lion Precision at 651-484-6544 or info@lionprecision.com.

*All LRD series sensors come with IP54 rating, short-circuit / overload protection and a two year warranty. **LRD8200 series require 4-pin M12 sensor cable and is available with standard LRD style mounting adapter.



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