The World's Most Popular
Precision Label Sensors

Clear • Paper • Metal • Hologram | Versatile • Easy to Use • Reliable

LION
PRECISION

What People Are Saying About LRD Sensors

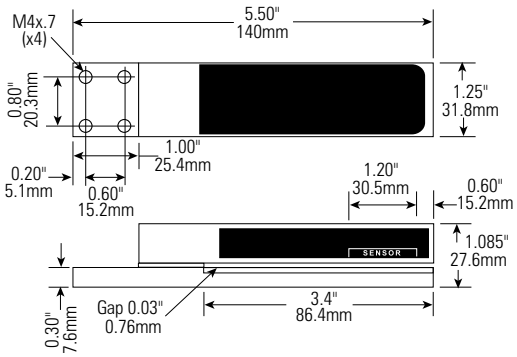
"The sensors worked better than anything else we had, so we converted all our labelers to Lion."

"I was told that Lion Precision made the best sensor for clear label application. They didn't lie. Have your sensors on two of our main labelers and will be replacing others as they need it."

"The best out there. Seems to last forever and our customers usually buy more to put on other machines."

- Over 50,000 Sensors Installed Across the Globe
- Sense Every Label Material
- Unmatched Two-Year Warranty
- Simple Adjustments that Stay Adjusted
- Fastest Label Sensors Available
- Most Accurate Label Sensors Available
- Unparalleled Service

LRD6300 has integral cable; LRD6300C has an M12 connector.



LRD6300 ***NEW!***

High-Speed Accuracy, One-Button Setup

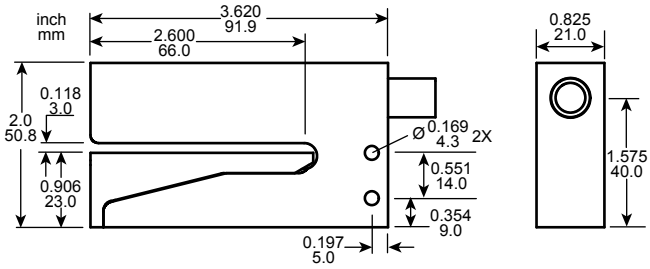
Use the finest clear label sensor in the world for reliable, easy-to-set label sensing on applicators and slitter/rewinders.

- Works on clear, paper, and most foil labels
- Easy pushbutton setup
- Capacitive sensor accuracy

Response Time:	15 µS
Accuracy:	0.05mm (0.002")
Switching Frequency:	10 kHz
Operating Temperature:	40°F-140°F, 4°C-60°C
Outputs:	NPN and PNP
Power In:	12 to 24 VDC
Environment:	IP54

Short-Circuit and Overload Protection

Works with all label materials including most solid foil.



Available with standard LRD style mounting adapter

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.

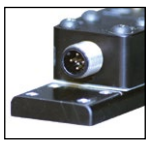
- Works on all label materials and designs
- Pushbutton adjustment
- Easy to read informative indicators

Response Time:	425 µS (max delay)
Accuracy:	60 m/min: 0.15 mm (0.006″)
	250 m/min: 0.60 mm (0.024″)
Switching Frequency:	1 kHz; 2 mm gaps at 250 m/min
Operating Temperature:	40°F-140°F, 4°C-60°C
Outputs:	NPN and PNP
Power In:	12 to 24 VDC
Environment:	IP54

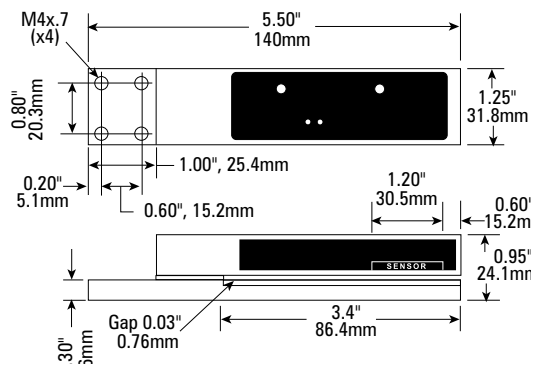
Short-Circuit and Overload Protection

Requires 4-pin M12 sensor cable

Works with all label materials



LRD2100 has integral cable; LRD2100C has an M12 connector.



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.

- Works with clear and paper labels
- Extremely stable setup
- Fast, accurate, reliable

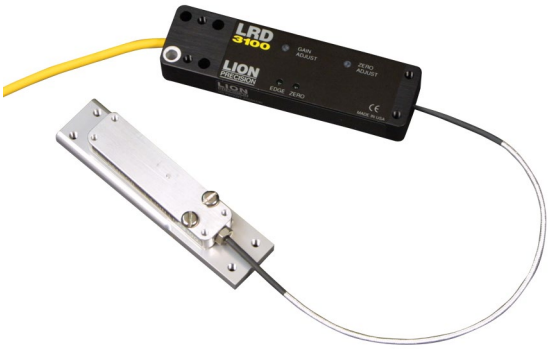
Response Time:	20 µS
Accuracy:	0.05 mm (0.002″)
Switching Frequency:	10 kHz
Operating Temperature:	40°F-140°F, 4°C-60°C
Outputs:	NPN and PNP
Power In:	12 to 24 VDC
Environment:	IP54

Short-Circuit and Overload Protection

Works with all labels without metallic or high-carbon materials or artwork.

Specialized Versions

These sensors use LRD2100 sensing technology in unique applications.



LRD3100

Clear Label Technology for Small Spaces

Same great performance as the LRD2100 in smaller spaces.

Sensor head can be used with supplied baseplate as pictured, or a baseplate system can be designed into the machinery.

10" (25.4mm) cable from main body to sensor head. Same specifications as the LRD2100.

LRD4100

Vertical, Multiple Mount for Slitter/Rewinders

Thin, vertical design for accurate and reliable counting of multi-lane clear or paper labels at rewind speeds.

Proper sensor mounting is critical to reliable operation, see Lion Precision TechNote, LT04-0020, ***LRD4100 Label Sensor Mounting Considerations*** available at www.lionprecision.com. Same specifications as the LRD2100.

LRD5100

Tear-Tape Sensor

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

Same specifications as the LRD2100.

Selection Chart

LRD sensors are also used for glue, splice, and hole detection. Ask a sales engineer about your unique sensing application.

	Adjustment Type	Paper	Clear	Metallic Ink	High-Carbon Black Ink	Hot Stamp	Solid Foil	Response Time	Switching Speed (kHz)	Accuracy mils / mm
LRD6300	Button	✓	✓	✓	✓	✓	Most	20 µS	10	2 / 0.05
LRD8200	Button	✓	✓	✓	✓	✓	✓	125 µS	1	24 / 0.30
LRD2100	Screw	✓	✓					20 µS	10	2 / 0.05
LRD3100	Screw	✓	✓					20 µS	10	2 / 0.05
LRD4100	Screw	✓	✓					20 µS	10	2 / 0.05

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