

LRD SENSORS

PRECISION LABEL SENSORS

Label Edge Detection
Splice Detection
Tear-tape Detection
High Speed
Customizable Solutions
Off the Shelf



ptics-free sensing technology is at the hear of an LRD clear label sensor. They see labels regular "eyes" cannot see. This improved technology also makes them more precice 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 tradtional 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 alow 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



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



Capacitive Label Sensor for Metal-Free Labels

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



LRD3120

Clear Label Technology for Small Spaces

Same great performance as the LRD2100 in smaller spaces Very small sensorhead for mounting in tight spaces

LRD8200

Ultrasonic Technology for Ever Label Type

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





Lion Eye2

Traditional Non-Clear Labels

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

M8 Connector only

LRD6300

High-Speed Accuracy, One-Button setup

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



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 machinary

LRD900

Traditional Non-Clear Labels

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

M8 connector only.



Product Selection Guide

Product Selection Guide			2100	3100	3120	5100	6300	8200	LionEye2	900
	Model	Integral Cable	P017-990	P017-9932	P017-9921	P017-9950	P017-6300			P017-9890
		M8 Connector							P015-3775	
		M12 Connector	P017-9901			P017-9951	P017-6301	P016-6100		
S	Hardware	Technology	Capacitive	Capacitive	Capacitive	Capacitive	Capacitive	Ultrasonic	Optical	Optical
ATION		Adjustment Type	Screw	Screw	Screw	Screw	Button	Button	Button	Screw
HIC/		Bar Graph Display					\	✓		
STANDARD TECHNICAL SPECIFICATIONS		Selectable Light/ Dark Display	Wired	Wired	Wired	Wired	Button	Button	Wired	Wired
		Outputs	NPN and PNP							
D TE		Power In	12 to 24 VDC	12 to 30 VDC	10 to 30 VDC					
ANDAR		Operating Temperature	40 - 140 F (4 - 60 C)	40 - 120 F (4 - 50 C)	32 - 140 F (-4 - 60 C)					
STA	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	1 kHz	10 kHz	10 kHz				
		Accuracy @ 60 m/min	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)	0.024 in (0.60 mm)	0.008 in (0.20 mm)	0.008 in (0.20 mm)				

TYPICAL SENSING PROCESSES	Label	Clear	✓	✓	✓		✓	✓		
		High-Carbon Black Ink					✓	✓		
		Metallic Ink					✓	✓	Nonclear	Nonclear
		Paper	✓	✓	✓		✓	✓	✓	✓
		Hologram	\	✓	✓		✓	✓		
		Hot Stamp					✓	✓	Nonclear	Nonclear
		Solid Foil & Metal					Most	✓	✓	✓
	Registration	Hole Detection	\	✓	✓		✓	✓	Nonclear	Nonclear
		Tear-Tape				✓				
		Multiple Film Layers					✓			
	Inspection	Slitter/Rewinder	✓	✓	✓		✓	✓		
		Splice Detection	\	✓	✓		✓	✓	Nonclear	Nonclear
		Glue & Adhesives	✓	✓	✓					
		Edge Tracking								

MANUAL NUMBER M017-9900	M017-9930	M017-9920	M017-9950	M017-6300	M016-6100	M017-3775	M017-9890
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