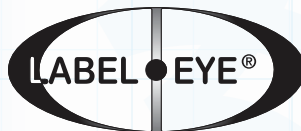
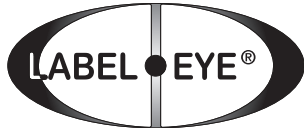


Label Sensor





Label Sensor

The LABEL•EYE® is a photoelectric sensor designed specifically to sense labels on a roll. Since the LABEL•EYE® is a one-touch AUTOSET sensor and not the conventional "teach mode" sensor, set-up is simple. Position the gap between the labels directly under the sensor's sight guide and push the "Normal" or "Translucent" button. The sensor does the rest, adjusting itself to the perfect setting. Sensing labels has never been easier.

The Label Applicator Process

The LABEL•EYE® is a special purpose gap or slot sensor optimized to sense adhesive labels adhering to a roll of backing paper. The web of labels is directed from a "roll" across a peeler plate or around a sharp edge. As the web passes around the sharp edge of the peeler plate, the adhesive label peels from the backing material. The function of the LABEL•EYE® is to look through the backing paper to detect the "gap" between the labels and signal the labeling machine to stop the dispensing mechanism before the label is completely dislodged from the backing material. With the next "up" label protruding off the end of the peeler plate, it is now perfectly positioned to be applied to the next product as it passes by on a conveyor.

The LABEL•EYE® operates on 10 to 30 VDC and is pulse-modulated to prevent any problems from ambient light. Although designed for label detection, the LABEL•EYE can be useful in a variety of applications such as edge guiding, small parts counting, and splice detection.



Features

- 100µs response time
- Two AUTOSET Modes: Normal or Translucent
- Cable and quick disconnect models
- NPN and PNP outputs
- One button AUTOSET

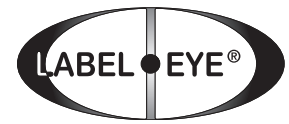
Benefits

- Easy to Setup
- Accurate and repeatable
- Easy to mount
- Common style and configuration for compatibility

Applications

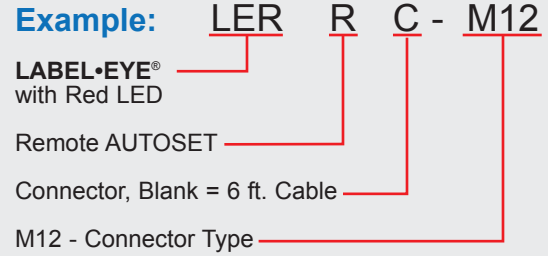
- Double sheet detection
- Envelope contents sensing
- Edge guiding
- Splice detection
- Label counting
- Winder, re-winder
- Die cutter
- Label hot-printing
- High speed dispensing

How to Specify



1. Select sensor model number required:

Model Numbers	Description
LER	Red LED, 4 conductor, 6 ft (1.8m) cable
LERC	Red LED, 4-pin M8 connector
LERR	Red LED, 5 conductor, 6 ft (1.8m) cable
LERRC-M12	Red LED, 5-pin M12 pigtail connector
LERC-M12	Red LED, 4-pin M12 pigtail connector



Features

One button AUTOSET!

LOCATOR TABS

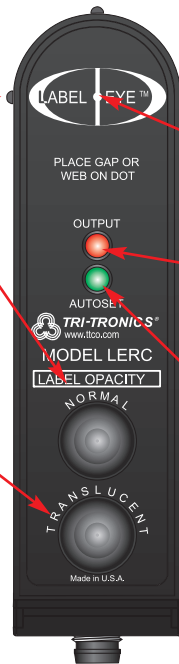
Help to center gap for proper detection

NORMAL BUTTON

1. AUTOSET: Press and hold for 1 second when backing is paper, mylar, plastic, or opaque material.
2. Hold down both buttons for 2 seconds to change output from Dark On to Light On.

TRANSLUCENT BUTTON

1. AUTOSET: Press and hold for 1 second when backing is translucent or transparent.
2. Hold down both buttons for 2 seconds to change output from Dark On to Light On.



CENTER of DETECTION

This point marks the exact center of light source and receiver through-beam.

RED LED OUTPUT INDICATOR

Illuminates when output is on
Flashes when sensor is shorted or overloaded

GREEN LED AUTOSET

Flashes rapidly during AUTOSET, for about 1/2 a second, and remains illuminated when complete
Flashes rapidly during AUTOSET, for about 1 second, and then flashes slowly with red LED Output Indicator four times when AUTOSET incomplete

NOTE: Optimized for opaque label sensing.

Hardware & Accessories

Micro Cable Selection Guide

Yellow Cable Assemblies 4-wire, M8



GEC-6
6' (1.8m) Cable with Connector

GEC-15
15' (4.6m) Cable with Connector

GEC-25
25' (7.62m) Cable with Connector



RGEC-6
6' (1.8m) Right Angle Cable with Connector

RGEC-15
15' (4.6m) Right Angle Cable with Connector

RGEC-25
25' (7.62m) Right Angle Cable with Connector



GEX-9
9' (2.7m) Extension Cable

Grey Cable Assemblies 5-wire, M12

GSEC-6
6' (1.8m) Shielded Cable

GSEC-15
15' (4.6m) Shielded Cable

GSEC-25
25' (7.62m) Shielded Cable

GRSEC-6
6' (1.8m) Right Angle Shielded Cable

GRSEC-15
15' (4.6m) Right Angle Shielded Cable

GRSEC-25
25' (7.62m) Right Angle Shielded Cable

GX-25
25' (7.62m) Extension Cable

Specifications



SUPPLY VOLTAGE

- 10 to 30 VDC
- Polarity Protected

CURRENT REQUIREMENTS

- 45mA (exclusive of load)

OUTPUT TRANSISTORS

- (1) NPN and (1) PNP output transistors
- Sensor outputs can sink or source up to 150mA (current limit)
- All outputs are continuously short circuit protected

RESPONSE TIME

- Light state response = 100 microseconds
- Dark state response = 100 microseconds

LED LIGHT SOURCE

- High intensity red LED
- Pulse modulated

PUSH BUTTON CONTROL

- Automatic setup routines based on web opacity
- One push button setup
- Pushing both buttons simultaneously inverts output

HYSTERESIS

- Minimal hysteresis promotes the detection between the backing material and the label depending on the settings

LIGHT IMMUNITY

- Responds to sensor's pulsed modulated light source, resulting in high immunity to most ambient light

INDICATORS

- Green LED flashes when AUTOSSET routine is activated and stays illuminated when AUTOSSET is completed
- Red LED illuminates when sensor's output transistors are "ON". NOTE: The status of the output transistors can be inverted by pushing both buttons simultaneously. If Output LED flashes, a short circuit condition exists.

AMBIENT TEMPERATURE

- -40°C to 70°C (-40°F to 158°F)

RUGGED CONSTRUCTION

- Chemical resistant high thermoplastic PPS housing
- Waterproof, ratings: NEMA 4 and IP66
- Conforms to heavy industry grade CE and UL requirements

RoHS Compliant
Product subject to change without notice

Connections and Dimensions

LABEL EYE®

