

How to Specify



- 1. Select sensor: LABEL•EYE**
- 2. Select remote AUTOSET:**
Blank = No remote AUTOSET
R = Remote AUTOSET
- 3. Select Connection:**
Blank = 6ft (1.8m) cable
C = 4-pin M8 connector
- 4. Select M12 connector:**
Blank = no M12
M12 = M12 pigtail connector

Example: LER R C - M12

LABEL•EYE® with Red LED

Remote AUTOSET

Connection

M12 - Connector Type

Features

LOCATOR TABS

Helps to center gap for proper detection.

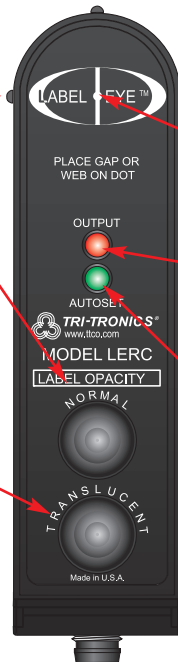
NORMAL BUTTON

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

TRANSLUCENT BUTTON

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

NOTE: Optimized for opaque label sensing.



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 one second, and then flashes slowly with red LED output indicator four times when AUTOSET incomplete.

Hardware & Accessories

4-Wire Nano Cable, M8



GEC-6
6ft (1.8m)

GEC-15
15ft (4.6m)

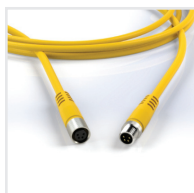
GEC-25
25ft (7.62m)



RGEC-6
6ft (1.8m) right angle

RGEC-15
15ft (4.6m) right angle

RGEC-25
25ft (7.62m) right angle



GEX-9
9ft (2.7m) extension cable

5-Wire Shielded MicroCable, M12



GSEC-6
6ft (1.8m)

GSEC-15
15ft (4.6m)

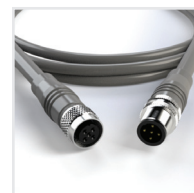
GSEC-25
25ft (7.62m)



GRSEC-6
6ft (1.8m) right angle

GRSEC-15
15ft (4.6m) right angle

GRSEC-25
25ft (7.6m) right angle



GX-25
25ft (7.6m) extension cable

Specifications

SUPPLY VOLTAGE

- 10 to 30VDC
- 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 = 100µs
- Dark state response = 100µs

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 AUTOSET routine is activated and stays illuminated when AUTOSET 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

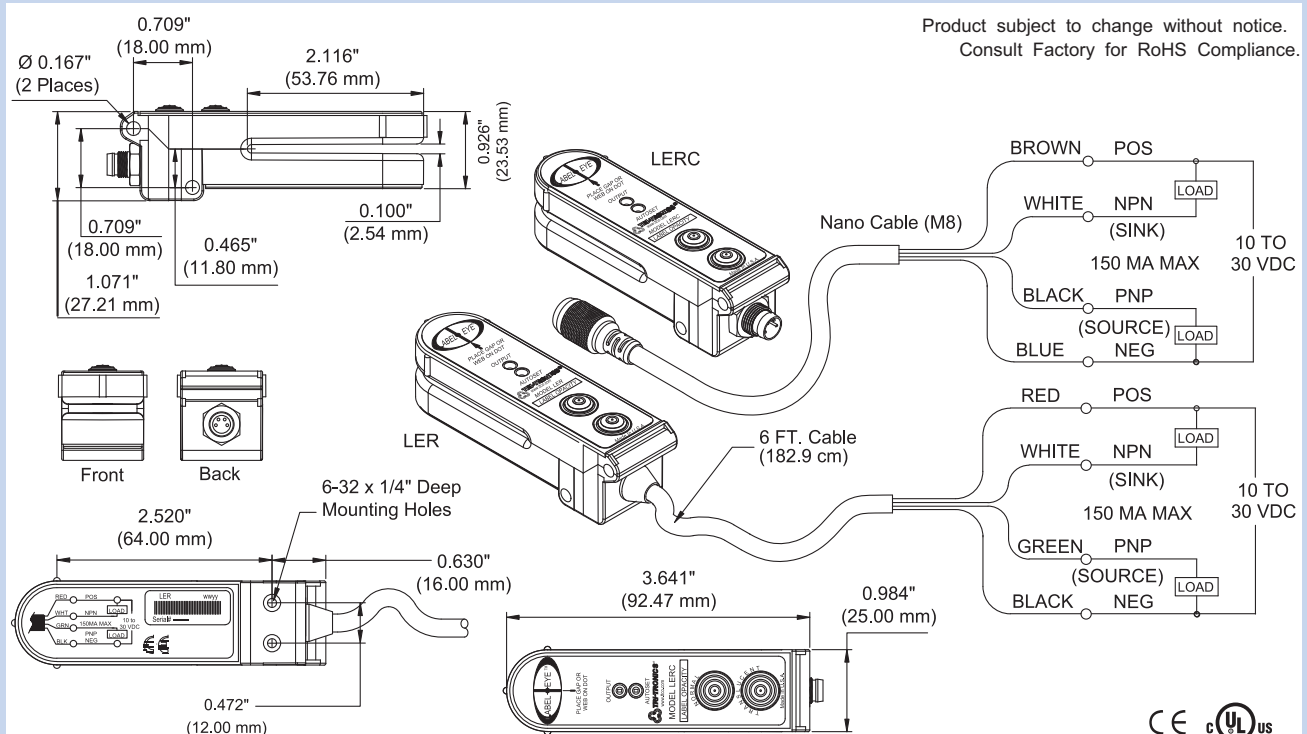
- Chemical resistant high thermoplastic PPS housing
- Waterproof, ratings: NEMA 4 and IP66
- Conforms to heavy industry grade CE and UL requirements

RoHS Compliant
Product subject to change without notice

Connections and Dimensions

LABEL•EYE®

Product subject to change without notice.
Consult Factory for RoHS Compliance.



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R = Remote AUTOSET
- 3. Select Connection:**
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C = 4-pin M8 connector
- 4. Select High Speed:**
Blank = standard LER
10 = High Speed LABEL•EYE
- 5. Select M12 connector:**
Blank = no M12
M12 = M12 pigtail connector

Example: LER R C 10 - M12

LABEL•EYE® with Red LED
Remote AUTOSET
Connection
High Speed
M12 - Connector Type

Features

LOCATOR TABS

Helps to center gap for proper detection

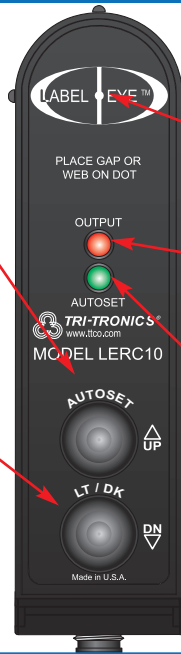
AUTOSET BUTTON

1. Hold AUTOSET for 1 second when gap is in view.
2. Tap UP to increase time from threshold (less sensitive).

LT/DK BUTTON

1. Hold for one second to switch from Light On Output to Dark On Output.
2. Tap DN to decrease time to threshold (more sensitive).

NOTE: Optimized for opaque label sensing.



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6ft (1.8m)

GEC-15
15ft (4.6m)

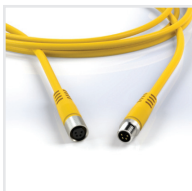
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5-Wire Shielded MicroCable, M12



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- Sensor outputs can sink or source up to 150mA (current limit)
- All outputs are continuously short circuit protected

RESPONSE TIME

- 10µs response time
- 5µs repeatability

PUSH-BUTTON CONTROL

- AUTOSET - One-push button setup
- LT/DK - Push and Hold to change output Light On/Dark On
- UP/DWN - Tweak-able Up/Down Adjustment

LED LIGHT SOURCE

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- Pulse modulated

HYSTERESIS

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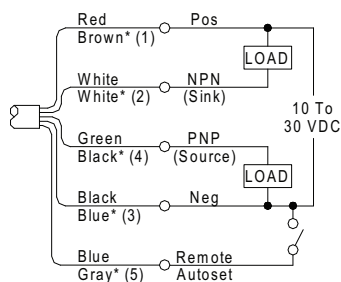
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Connections and Dimensions

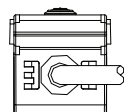
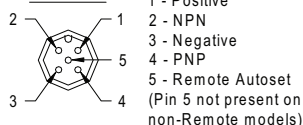
Ultra-High Speed LABEL•EYE

Label Eye Wiring (Remote Set)



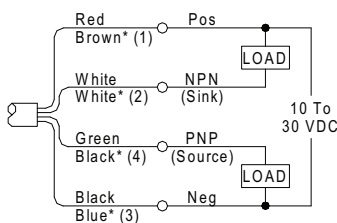
* - Sensors with connectors

M12 Male Connector



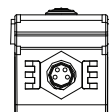
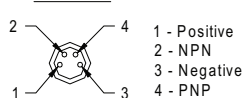
CABLE / M12 REAR VIEW

Label Eye Wiring (Standard)



* - Sensors with connectors

M8 Male Connector



M8 REAR VIEW

