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	<u>C</u> -	M	12
LABEL•EYE [®] - with Red LED					
Remote AUTOS	ET				
Connection —					
M12 - Connecto	or Type —				

ABEL HEYE

Features

LOCATOR TABS

NORMAL BUTTON

On.

opaque material.

TRANSLUCENT BUTTON

transparent.

Helps to center gap for proper detection.

1. AUTOSET: Press and hold for one second

2. Hold down both buttons for two seconds

to change output from Dark On to Light

1. AUTOSET: Press and hold for one second

2. Hold down both buttons for 2 seconds to

NOTE: Optimized for opaque label sensing.

change output from Dark On to Light On.

when backing is translucent or

when backing is paper, mylar, plastic, or



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

5-Wire Shielded MicroCable, M12 GSEC-6

6ft (1.8m)

GSEC-15 15ft (4.6m)

GSEC-25

GRSEC-6

GRSEC-15

GRSEC-25

25ft (7.62m)

6ft (1.8m) right angle

15ft (4.6m) right angle

25ft (7.6m) right angle

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.

_ABEL•EYE®

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





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



N

Specialty Application Photoelectric Sensors

How to Specify

N

Specialty Application Photoelectric Sensors

140

40

- 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
- **Features**

- **4.** Select High Speed: Blank = standard LER 10 = High Speed LABEL•EYE
- **5.** Select M12 connector: Blank = no M12 M12 = M12 pigtail connector

	12
LABEL•EYE [®] with Red LED	
Remote AUTOSET	
Connection	
High Speed	
M12 - Connector Type	

1.0

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).

ABEL PLACE GAP OR WEB ON DOT AUTOSET TRI-TRONICS MODEL LERC10 AUTOSE, 슈 JOA 망

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.

NOTE: Optimized for opaque label sensing.

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



GFX-9 9ft (2.7m) extension cable

5-Wire Shielded MicroCable, M12

GSEC-15

GSEC-6 6ft (1.8m)

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

2-125

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

- 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

- High intensity red LED
- Pulse modulated

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.

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

Ultra-High Speed LABEL•EYE

RoHS Compliant Product subject to change without notice

Connections and Dimensions

Label Eye Wiring (Standard) Label Eye Wiring (Remote Set) 6" M12 PIGTAIL CONNECTOR Red Brown* (1) Red Pos Pos Brown* (1) LOAD LOAD NPN (Sink) White White* (2) NPN (Sink) White 0 -0-White* (2) 10 To 10 To 1.073" [27.3mm] 30 VDC 30 VDC PNP PNP Green Green (Source) Black* (4) (Source) Black* (4) LOAD LOAD Neg Black Blue* (3) Neg <u>Black</u> Blue* (3) 3.686" [93.63mm] * - Sensors with connectors OREMOTE Autoset Blue Gray* (5) 2.116" [53.8mm] 0.709" [18.0mm] * - Sensors with connectors 0.117" [3.0mm] M8 Male M12 Male 0.926" [23.5mm] Connector Connector 0.709" [18.0mm] 1.071" [27.2mm] 1 - Positive B 2 - NPN 1 - Positive 3 - Negative 2 - NPN 4 - PNP 3 - Negative 2X Ø0.167 [Ø4.25mm] 5 - Remote Autoset 4 - PNP (Pin 5 not present on non-Remote models) 2.520" [64.00mm] 0.630" 0.472" [12.0mm] 릐 \odot 6 FT SHIELD<u>ED</u> CABLE CABLE / M12 REAR VIEW M8 REAR VIEW 2X 6-32 X 1/4" DEEP MOUNTING HOLES

LABEL • EYE®