High Speed LABEL•EYE (10 microseconds)

AUTOSET

Similar to the Standard Label Eye in setup, simply put the gap in view and push and hold the AUTOSET button for 1 second. The AUTOSET LED will remain on when the setup is complete. If the setup is not adequate, the AUTOSET and Output LEDs will flash 3 times. This may indicate a backing material that is too dense to penetrate.

UP/DN Adjustments

The High Speed Label Eye has the ability to "tweak" the setup incrementally. Simply momentarily tap the AUTOSET (UP△) button, or LT/DK (DN▽) button to adjust the sensor to a more stable and repeatable setting. This feature is used when the AUTOSET does not provide the optimum setting initially.

Example: If the label backing material is inconsistent, or the label material has more translucent areas coming into view, then the sensor may need to be adjusted slightly for this rare occasion.

Having the ability to fine tune the sensor for changing conditions provides a solution that is easy to implement and simple to understand.

Light/Dark

Push the LT/DK button to change output from Dark On to Light On...ouput turns on when label in view, or output turns on when gap in view.

LABEL•EYE™

PLACE GAP OR
WEB ON DOT

OUTPUT

AUTOSET

TRI-TRONICS®
www.ttco.com

MODEL LERC10

AUTOSET △ UP

LT / DK ▽ DN

Made in U.S.A.

TRI-TRONICS®

SPECIFICATIONS

SUPPLY VOLTAGE
- 10 to 30 VDC
- Polarity Protected / Transient Voltage Protected
- Intended for use in class two circuits

CURRENT REQUIREMENTS
- 45 milliamps (exclusive of load)

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

REMOTE AUTOSET INPUT
- opto isolated momentary sinking input (10 milliamps)
Note: Remote models only

RESPONSE TIME
- Light/Dark state response = 10 microseconds

LED LIGHT SOURCE
- High intensity red LED
- Pulse modulated

PUSH BUTTON CONTROL
- Automatic set-up routines based on web opacity
- AUTOSET - One button push setup
- LT/DK - Change output from Label to Gap

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 … immune to most ambient light

INDICATORS
- Green LED flashes when AUTOSET routine is activated and stays illuminated when AUTOSET is completed
- Red LED illuminates when sensors output transistors are "ON".
Note: The status of the output transistors can be inverted by pushing the LT/DK button.

AMBIENT TEMPERATURE
- –40°C to 70°C (-40°F to 158°F)

RUGGED CONSTRUCTION
- Chemical resistance to harsh cleaners such as detergents, alcohols, and ketones
- Waterproof, ratings: NEMA 2
- Conforms to heavy industry grade CE requirements

RoHS Compliant
Product subject to change without notice.
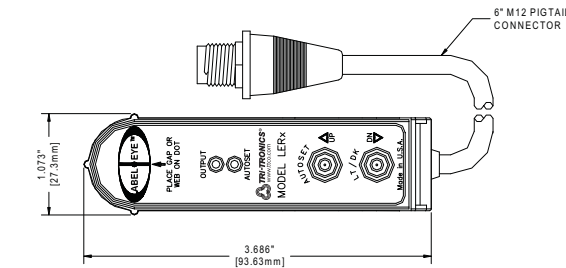
Model Numbers: High-Speed		Nano Cable (M8) Selection Guide		
Label•Eye	**Description**	**P/N**	**Length**	**Thread Coupling**
LERC10	Red LED, 4-pin M8 Connector	GEC-6	6 ft. (1.8m)	Straight Female
LERR10	Red LED, 5 Conductor, 6 ft. Cable	GEC-15	15 ft. (4.6m)	Straight Female
LERRC10-M12	Red LED, 5-Pin, M12 Connector	RGEC-6	6 ft. (1.8m)	90° Female
		RGEC-15	15 ft. (4.6m)	90° Female

DIMENSIONS

Label Eye Wiring (Remote Set)

Red Brown* (1) — Pos
White White* (2) — NPN (Sink)
Green Black* (4) — PNP (Source)
Black Blue* (3) — Neg
Blue Gray* (5) — Remote Autoset
10 To 30 VDC
LOAD / LOAD
* - Sensors with connectors
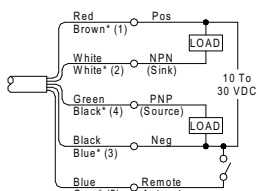
Label Eye Wiring (Standard)

Red Brown* (1) — Pos
White White* (2) — NPN (Sink)
Green Black* (4) — PNP (Source)
Black Blue* (3) — Neg
10 To 30 VDC
LOAD / LOAD
* - Sensors with connectors

M12 Male Connector
1 - Positive
2 - NPN
3 - Negative
4 - PNP
5 - Remote Autoset (Pin 5 not present on non-Remote models)

M8 Male Connector
1 - Positive
2 - NPN
3 - Negative
4 - PNP
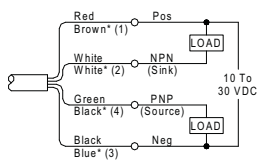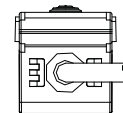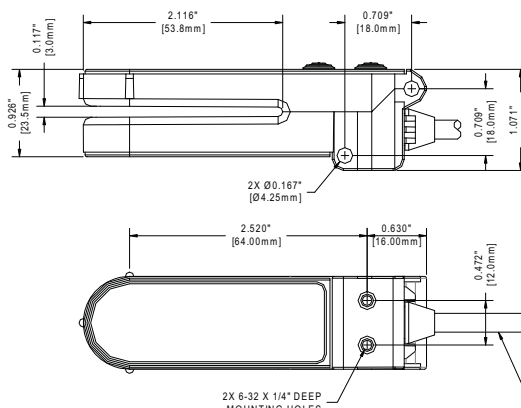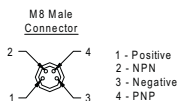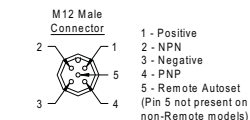
6" M12 PIGTAIL CONNECTOR
1.073" [27.3mm]
3.686" [93.63mm]
0.117" [3.0mm]
2.116" [53.8mm]
0.709" [18.0mm]
0.926" [23.5mm]
0.709" [18.0mm]
1.071" [27.2mm]
2X Ø0.167" [Ø4.25mm]
CABLE / M12 REAR VIEW
M8 REAR VIEW
2.520" [64.00mm]
0.630" [16.00mm]
0.472" [12.0mm]
2X 6-32 X 1/4" DEEP MOUNTING HOLES
6 FT SHIELDED CABLE