

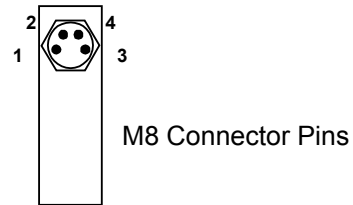
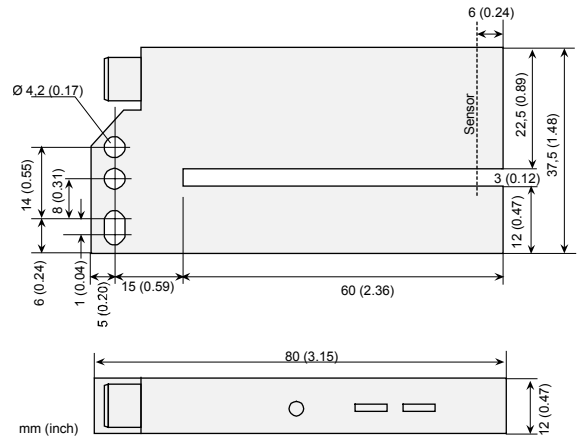
LION PRECISION LION EYE LABEL SENSOR

INSTRUCTION SHEET

M015-3770.03

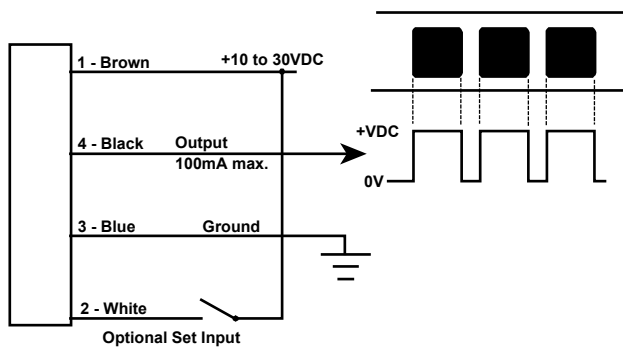
Introduction:

The LION PRECISION LIONEYE is an inexpensive optical sensor for the detection and registration of label edges and splices. The sensor's output signal indicates the leading or trailing edge of the label as it passes through the sensor.

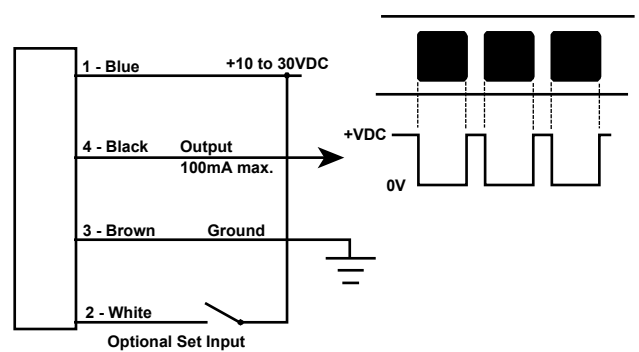


Electrical Connections

Dark Switching



Light Switching



Setting Up the Sensor

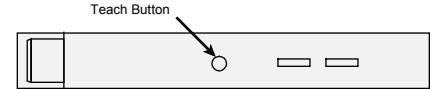
Important Indications:

Red LED steady: Sensor Setup Locked

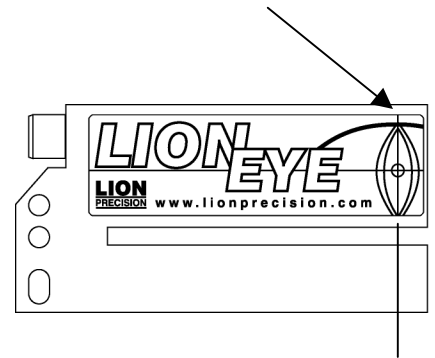
Red and Green LEDs flashing: Output Short Circuit or web (backing) is too opaque

Setup Procedure:

1. If sensor is locked (steady Red LED), hold teach button down for up to six seconds until Red LED turns off
2. Place web (backing) only under sensor. Sensor location is indicated by straight gray line on label.
3. Click teach button once for standard setup, or twice for high sensitivity setup. (High sensitivity is used when there is very little opacity difference between the web and the labels).
4. If Red and Green LEDs begin to flash together, the web is too opaque for the sensor, install LRD2100 or LRD6110 instead.
5. Verify proper operation of the sensor.
6. Hold teach button down (up to six seconds) until Red LED is on steady. This will lock the sensor.



Vertical, gray line indicates sensor axis



The external teach signal can be used instead of the sensor's teach button.

Power supply	Voltage	10 - 30 VDC
	Residual Ripple	10% (must remain within 10-30 VDC)
	Current	40mA
Response time	on or off	50µs max
	Switching Frequency	10kHz max
Output	Output Current (sinking or sourcing)	100mA max
	Switching output	0 to +VDC (not open collector)
	Output voltage drop at 100 mA	2 V
	Output voltage drop at 10 mA	1 V
Emitter	LED (continuous)	Infrared
Temperature	Operating Range	-4°F to +140°F (-20°C to 60°C)
External Light Immunity	Artificial Light	3000 Lux
	Daylight	3000 Lux
Protections	Supply	Inverse Polarity Protection
	Switching output	Short Circuit and Overload Protection
	Degree of Protection	IP 65
Housing	Housing Material	Aluminum
	Dimensions	31.5 x 4.7 x 18.8 in (80 x 12 x 37,5 mm)
	Weight	2oz. (50 g)