Mini Label Eye Sensor

Installation Manual

The **Mini Label Eye** is a special purpose gap or slot sensor optimized to sense adhesive labels adhering to a roll of backing paper.

At only 10mm wide this small sensor can fit into many tiny spaces. Setup is fast with one press AUTOSET button. The LT/DK toggles between Light On or Dark On. The oversize LED indicator lets you know your sensor's performance even from a few feet away.
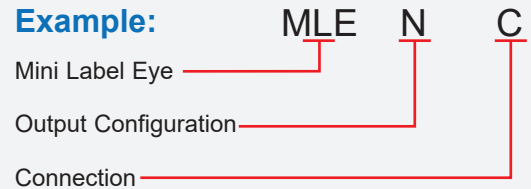
How to Specify

1. **Select Sensor: MLE**
Mini Label Eye

2. **Select Output Configuration**
P = PNP
N = NPN

3. **Select Connection:**
Blank = 6ft (1.8m) Cable
C = 4-Pin M8 Male

Example: MLE N C

Mini Label Eye ⟶
Output Configuration ⟶
Connection ⟶

Features

AUTOSET
1. Hold (one second) for AUTOSET.
2. Tap to adjust threshold (+).

LT/DARK
1. Hold to toggle between Light On (LT) or Dark ON (DK).
2. Tap to adjust threshold (+).

THREE WAY OUTPUT INDICATOR
1. RED when output is ON.
2. GREEN when output is OFF.
3. AMBER during AUTOSET.

CONNECTION
4-Pin M8 connector or built-in cable.
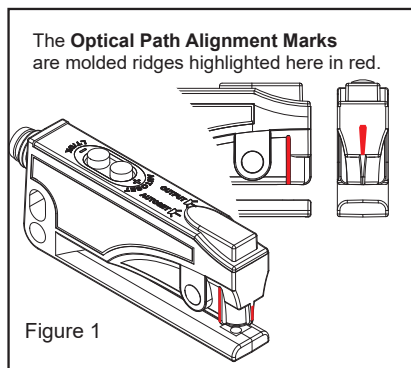
Quick Start

1. OR **Power Up**

Indicator illuminates (green or red) on power up.

2. Place the gap between labels in sensor's view using the **Optical Path Alignment Guides** (see Figure 1). *Tip: If the gap is difficult to work with, try removing a label.*

The **Optical Path Alignment Marks** are molded ridges highlighted here in red.

Figure 1

3. With the gap in view, press and hold AUTOSET. Indicator turns amber, then back to red or green. Indicator flashes red/green with insufficient signal.

4. Adjust threshold if necessary.

5. Hold LT/DK to toggle Light On / Dark On.

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Specifications

SUPPLY VOLTAGE
• 4.75 to 30Vdc
• Polarity Protected

CURRENT REQUIREMENTS
• 18 milliamps (exclusive of load)

OUTPUT TRANSISTORS
• NPN or PNP (dependent on model)
• Outputs sink or source up to 120 milliamps (current limit)
• All outputs are continuously short circuit protected

RESPONSE TIME
• 35 microseconds

LED LIGHT SOURCE
• High Intensity IR LED

AMBIENT TEMPERATURE
• -40ºC to 70ºC (-40ºF to 158ºF)

PUSH BUTTON CONTROL
• One push AUTOSET
• LT/DK inverts output
• Adjust threshold (+ or -)

HYSTERESIS
• 5%

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

INDICATOR
• (GREEN or RED) to indicate power is on.
• AMBER during AUTOSET.
• RED when sensor's output transistors are ON, and GREEN when they are OFF.
  Note: Flashes RED when a short circuit condition exists.

HOUSING CONSTRUCTION
• Top lid: polycarbonate
• Output window: ABS
• Case: 50% glass filled nylon
• Buttons: silicon rubber

RATINGS AND CERTIFICATIONS
• IP65
• CE
• UL pending

CE

Connections and Dimensions   Mini Label Eye Sensor

4-PIN MALE M8 CONNECTOR

(ALSO AVAILABLE W/ 6.5 FT (2 METER) ATTACHED CABLE)

LT/DK   AUTOSET +   OUTPUT   AUTOSET

2.526" [64.2mm]

0.394" [10.0mm]

(2)   (4)
(1)   (3)

0.271" [6.9mm]

0.258" [6.5mm]

Ø0.165" [Ø4.2mm]

0.118" [3.0mm]

1.033" [26.2mm]

1.575" [40.0mm]
1.750" [44.5mm]
1.693" [43.0mm]
0.276" [7.0mm]

NPN WIRING

POS   Brown (1)
LOAD
NPN   Black (4)
4.75-30 VDC
IN   White (2)
NEG   Blue (3)

PNP WIRING

POS   Brown (1)
IN   White (2)
4.75-30 VDC
PNP   Black (4)
LOAD
NEG   Blue (3)

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