

# LabelX

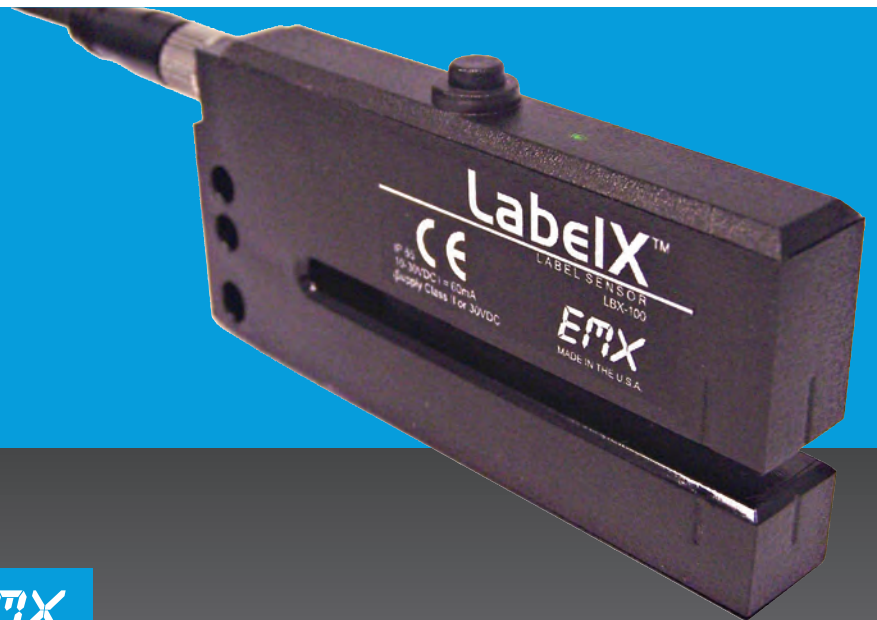
## LABEL SENSOR

The LabelX sensor combines small spot size and fast response to achieve high-speed label detection. LabelX is capable of detecting a wide variety of adhesive labels on many different types of web backings by differentiating between the gap and the label. The fast response of the sensor allows for precise spatial resolution of the label edge. The Teach key provides Standard Teach-in and Thin Teach-in. The LBX-100 also provides Custom Teach-in. Custom Teach-in records a separate measurement on the gap and on the label to allow for optimal detection of difficult labels.

Status LEDs provide visual indication of teach and error conditions. Key lock mode is available to lock the Teach key. Remote teach input is provided. Light-ON / Dark-ON functionality is provided via the wiring connections.

The sensor provides a discrete output that can be connected for NPN and PNP operation. A PLC can be used to monitor the status of the discrete output signal indicating label or gap presence as required.

# LBX



INDUSTRIES

[EMX Industries, Inc.](http://www.emxinc.com)

4564 Johnston Parkway, Cleveland, Ohio 44128

P. 800 426 9912 F. 216 518 9884

**Sales Inquiries:** [salesupport@emxinc.com](mailto:salesupport@emxinc.com) **Technical Support:** [technical@emxinc.com](mailto:technical@emxinc.com)  
[www.emxinc.com](http://www.emxinc.com)



## Applications

- Label applicator machines
- Label counting
- Double sheet detection
- Mark detection on translucent film
- Splice detection
- Winder, re-winder
- Label registration
- High-speed dispensing

## Design & Features

- Fast and easy teach-in
- Remote teach-in
- Output status indicator
- PNP or NPN output
- Light-on/dark on connections
- M8 connector
- Key lock

## Ordering Information



LBX-50  
LabelX sensor  
2 programming modes



LBX-100  
LabelX sensor  
3 programming modes

## Functions

**OPERATING MODE**  
**TEACH - STANDARD**  
**TEACH - THIN**  
**TEACH - CUSTOM**  
**GREEN LED ON**  
**RED LED ON**  
**RED/GREEN FLASHING**

The LabelX is in operating mode in detect and undetect state  
 One press sets switching point for standard labels  
 Two presses sets switching point for low contrast labels  
 High sensitivity for nearly clear labels (LBX-100)  
 Gap detected  
 Teach key locked  
 Output short circuit condition

## Specifications

<p><b>Light source</b>  <b>Fork width</b>  <b>Minimum gap or label size</b>  <b>Response time</b>  <b>Switching Frequency</b>  <b>Controls</b>  <b>Light ON/Dark ON control</b>  <b>Digital Output</b>  <b>Detect indicator</b>  <b>2-press teach indicator</b>  <b>Key lock indicator</b>  <b>Fault indicator</b>  <b>Programming indicator</b>  <b>Data retention</b>  <b>Dimensions</b>  <b>Weight</b>  <b>Supply Voltage</b>  <b>Operating Current</b>  <b>Short Circuit Protection</b>  <b>Overload / Reverse Polarity Protection</b>  <b>Operating temperature</b>  <b>Storage temperature</b>  <b>Connector</b>  <b>Housing</b>  <b>Mechanical protection</b></p>	<p>High intensity IR          min.100,000 hours          3mm          2mm          &lt;40uS          12.5kHz          Teach-in key          By connections          PNP / NPN, 100mA          Green LED          Yellow LED          Red LED          Flashing red/green          Yellow/green LED          EEPROM non—volatile memory          1.5"(38mm) x 3.2"(80mm) x 0.5"(12mm)          0.21 lbs. (95 g)          10...30 VDC          40mA, (not including output)          Discrete output          Supply voltage          -20°C...55°C          -20°C...70°C          M8, 4 pin          Plastic          IP65</p>	<p><b>Indicators</b>  <b>Green LED</b>  <b>Red LED</b>  <b>Connector M8</b>  <b>Pin 1</b>  <b>Pin 2</b>  <b>Pin 3</b>  <b>Pin 4</b></p>	<p>Detect          Key lock          Power          Remote Teach          Power          Discrete output          PNP/NPN</p>
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LBX-100 detects semi-clear label on clear web



Industry standard connector, wiring and mounting configuration

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**NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.**

**MADE IN THE USA**

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