UVX Tin-side

ON-LINE DETECTION SYSTEM

The tin-side detection system employs our field-proven, UVX™-based sensor, to accommodate the special requirements for reliable tin-side glass detection.

Identification of the tin-side of float-glass is important to glass processors in laminating, printing and specialty coating applications.

The Control Unit provides a display with a 00-99 range and access to set-up parameters and threshold adjustment. The output of the Control Unit is a discrete, NPN/PNP that indicates when the signal level exceeds the threshold setting which occurs when viewing the tin-side. The Control Unit may be mounted to provide easy access to the controls and display.

The Optical Unit is mounted at approximately 5-10mm from the surface of the glass. A green LED indicates power. The enclosure provides 4 mounting holes for customer-supplied bracket/hardware. The Optical Unit also functions as a shroud over the sampling area to minimize exposure to the UV light source and prevent interference from ambient light. The light source is field replaceable by properly trained technicians.
WARRANTY: HIGH INTENSITY UV LIGHT, WEAR EYE AND SKIN PROTECTION.

WARRANTY: EMX INC. the product described herein for a period of 2 years under normal use and service from the date of manufacture. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser’s exclusive remedy shall be limited to the repair or replacement at EMX’s option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but not limited to any damages resulting from non-conformity defect in material or workmanship.

**Applications**
- Detect tin-side of glass
- Laminating
- Printing
- Specialty coatings
- Glass processing

**Design & Features**
- Small spot size
- Remote mounted display and control
- Fast response
- Display range 00-99
- Adjustable gain
- Analog outputs
- PNP/NPN discrete output

**Ordering Information**
- UVX-300G-C-CU
  - Control Unit
- OU-TS
  - Optical Unit, tin-side
- M12-10-2-MF
  - Cable, 10P, 5M, M12, M/F

**Accessories**
- UVX-300B
  - Bracket
- UVX-300C
  - Cable, 5P, 5M, M12, F
- Power Supply
  - Regulated 24VDC

**Specifications**

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Light source</strong></td>
<td>Deep UV, 1…2mm, 3 levels, sensing distance, switching frequency</td>
</tr>
<tr>
<td><strong>Light spot size</strong></td>
<td>5…10mm, &lt;150µS, 6kHz, 00 to 99 adjustable</td>
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<tr>
<td><strong>Light source intensity</strong></td>
<td>7-segment display, Green LED, Red LED, Yellow LED</td>
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<tr>
<td><strong>Sensing distance</strong></td>
<td>Two 7 segment digits, Two 7 segment digits, Auto-Detect PNP/NPN</td>
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<tr>
<td><strong>Response time</strong></td>
<td>NO/NC selectable, 0…5V, Green LED, Red LED, Yellow LED</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>Pin 1, Pin 2, Pin 3, Pin 4, Pin 5, LED enable input</td>
</tr>
<tr>
<td><strong>Relative intensity display range</strong></td>
<td>Connector M12, 51mm x 106mm x 167, 500g (1.1 lbs.)</td>
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<tr>
<td><strong>Sensitivity</strong></td>
<td>51mm x 61mm x 25mm, 95 g (0.21 lbs.)</td>
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<tr>
<td><strong>Signal level</strong></td>
<td>0 to 99, Adjustable</td>
</tr>
<tr>
<td><strong>Detection threshold</strong></td>
<td>Digital Output, Output Function, Analog Output, Power Indicator</td>
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<tr>
<td><strong>Power Indicator</strong></td>
<td>Detect indicator, Programming indicator, Data retention</td>
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<tr>
<td><strong>Programming indicator</strong></td>
<td>EEPROM non—volatile memory</td>
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<tr>
<td><strong>Power to 24VDC</strong></td>
<td>Power</td>
</tr>
<tr>
<td><strong>Discrete output</strong></td>
<td>Pin 1, Pin 2, Pin 3, Pin 4, Pin 5, LED enable input</td>
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<tr>
<td><strong>PNP/NPN NO/NC</strong></td>
<td></td>
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<tr>
<td><strong>Ground</strong></td>
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<tr>
<td><strong>Analog output 0 to 5V DC</strong></td>
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**Indicators**
- 7 -Segment display
- Green LED
- Red LED
- Yellow LED

**Connectors**
- M12
- Pin 1, Pin 2, Pin 3, Pin 4, Pin 5

**LED and Power**
- Power indicator
- Detect indicator
- Programming indicator
- Data retention
- EEPROM non—volatile memory

**Dimensions**
- 51mm x 106mm x 167 (2” x 4.2” x 6.6”)
- Weight: 500g (1.1 lbs.)

**Operating Voltage**
- 24 VDC
- 60 mA

**Discrete output**
- Supply voltage
- Overload / Reverse Polarity Protection
- Operating temperature
- Storage temperature
- Housing
- Metal alloy