UVX-300G
LUMINESCEENCE SENSOR

Confirm manufacturing processes more reliably than vision systems that cost ten times more. The UVX employs our field-proven, patented technology, for effective detection of glues and adhesives in assembly, manufacturing and packaging processes. It can be used to check for gaps in glue dispensing operations, excess glue on joints and clogged nozzles. Even transparent glue is reliably detected. High-sensitivity and fast response makes the UVX suitable for high-speed automation processes. The metal alloy case and glass lens provide robust construction expected in an industrial environment.

The UVX features a 2-digit display that provides an indication of signal strength making set-up and integration quick and easy. The versatile sensor provides user set-up parameters including light source intensity adjustment, detection threshold and five gain selections making the UVX useful in a wide range of applications.

The UXV includes both a discrete PNP/NPN output and an analog output. The discrete output is automatically set for PNP or NPN operation. The analog output signal may be used to access the relative quantity of UV materials such as optical brightener coatings applied to clear films.

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**Functions**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Feature</th>
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<tbody>
<tr>
<td>NORMAL OPERATING MODE</td>
<td>Displays relative reflection intensity x1, x2, x3, x4, x5</td>
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<tr>
<td>SENSITIVITY</td>
<td>Set detection level</td>
</tr>
<tr>
<td>THRESHOLD</td>
<td>Set LED, LO, MED, HI</td>
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<tr>
<td>UV LED INTENSITY</td>
<td>Set undetect level 1-9 steps below threshold</td>
</tr>
<tr>
<td>HYSTERESIS LEVEL</td>
<td>Set normally open or normally closed</td>
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<tr>
<td>DISCRETE OUTPUT</td>
<td>Set minimum output period 10...90mS</td>
</tr>
<tr>
<td>OUTPUT PULSE STRETCH</td>
<td>Lock/unlock pushbutton controls</td>
</tr>
<tr>
<td>SECURITY</td>
<td>Auto-set detection threshold</td>
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<tr>
<td>TEACH MODE</td>
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</tbody>
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**Specifications**

- **Light source**: 370nm UV LED, 100,000 hrs.
- **Light spot size**: 6...8mm dia. @ 50mm
- **Receiver Spectral Response**: 6kHz
- **Response time**: 00 to 99
- **Switching Frequency**: x1, x2, x3, x4, x5
- **Relative intensity display range**: Two 7 segment digits
- **Sensitivity**: Two 7 segment digits
- **Signal level**: Two 7 segment digits
- **Detection threshold**: Auto-Detect PNP / NPN NO/NC selectable
- **Digital Output**: 0...5V
- **Power indicator**: Green LED
- **Detect indicator**: Red LED
- **Programming indicator**: Yellow LED
- **Data retention**: EEPROM non—volatile memory
- **7-Segment display**: 51mm x 61mm x 25mm (2.0” x 2.4” x 1.0”)
- **Weight**: 95 g (0.21 lbs.)
- **Supply Voltage**: 24 VDC 60 mA
- **Operating Current**: Discrete output
- **Short Circuit Protection**: Supply voltage
- **Overload / Reverse Polarity Protection**: -20°C...55°C
- **Operating temperature**: -20°C...70°C
- **Storage temperature**: Metal alloy
- **Housing**: IP65 NOT FOR PRESSURE WASHDOWN
- **Dimensions**: 50 mm focal lens
- **Connector M12**: Pin 1, Pin 2, Pin 3, Pin 4, Pin 5
- **LED**: Power to 24VDC
- **Detect indicator**: Discrete output PNP/NPN NO/NC
- **Program**: Ground
- **Remote LOCK/UNLOCK input**: Analog output 0 to 5V DC

**Applications**

- Adhesives, gums and glues
- Labels, packaging
- UV inks, visible and invisible
- UV crayons and chalk, lumber marking
- Tamper-evident-seals
- Textiles, luminescent threads
- Optical brightness, paper industry
- Grease and oils

**Ordering Information**

- **UVX-300G**: Luminescence sensor
- **UVX-300L50**: 50 mm focal lens
- **UVX-300B**: Bracket
- **UVX-300C**: Cable 5P, 5M, M12, F

**Accessories**

- **UVX-300L50**: 50 mm focal lens
- **UVX-300B**: Bracket
- **UVX-300C**: Cable 5P, 5M, M12, F

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

**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.