UVX-100

LUMINESCENCE 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 UV luminescent materials such as wood, grease, adhesives, UV inks and optical brighteners used in many industrial applications. Its 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 gain selection 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.











- 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

- Small spot size
- High sensitivity and high resolution
- Fast response
- Display range 00-50
- Two gain settings
- Analog output
- PNP/NPN discrete output



UVX-100 Luminescence sensor

Functions

NORMAL OPERATING MODE **SENSITIVITY THRESHOLD UV LED INTENSITY HYSTERESIS LEVEL DISCRETE OUTPUT OUTPUT PULSE STRETCH SECURITY TEACH MODE** Displays relative reflection intensity X1 and X10

Set detection level Set LED, LO, MED, HI

Set undetect level 1-9 steps below threshold Set normally open or normally closed Set minimum output period 10...90mS Lock/unlock pushbutton controls Auto-set detection threshold

Specifications

Light source Light spot size **Light source intensity** Sensing distance **Receiver Spectral Response** Response time **Switching Frequency** Relative intensity display range Sensitivity Signal level **Detection threshold Digital Output Output Function Analog Output Power indicator Detect indicator** Programming indicator **Data retention Dimensions**

Weight **Supply Voltage Operating Current Short Circuit Protection Overload / Reverse Polarity Protection Operating Temperature Storage Temperature** . Housing **Mechanical Protection** 370nm UV LED, 100,000 hrs. 6...8mm dia. @ 50mm

3 levels

Indicators up to 100mm 7-Segment display | LED Green LED 350...1000nm Power <150uS Red LED Detect Yellow LED 6kHz Program

Connector M12

Pin 3

Pin 4

Power to 24VDC Discrete output

PNP/NPN NO/NC

Analog output 0 to

UNLOCK input

Ground

5V DC Remote LOCK/

00 to 50 X1, X10

Two 7 segment digits

Two 7 segment digits Auto-Detect PNP / NPN

NO/NC selectable 0...5V Green LED Red LED

Yellow LED

EEPROM non-volatile memory 51mm x 61mm x 25mm (2.0" x 2.4" x 1.0")

95 g (0.21 lbs.) 10...24 VDC

60 mA Discrete output Supply voltage

-20°C...55°C -20°C...70°C

IP65 NOT FOR PRESSURE WASHDOWN



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.



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