UVX-300P

PHOSPHORESCENCE SENSOR

Confirm the presence of phosphorescent materials and pigments used in paints, adhesives, security inks and plastics reliably with the UVX-300P. The UVXTM employs our field-proven technology for effective detection in a wide variety of assembly, manufacturing and packaging processes. Since phosphorescent materials continue to emit light after the UV excitation have been removed, it is necessary to control sampling and measurement to assure that this does not interfere with the sensor detection process. High-sensitivity and fast response makes the UVX-300P 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 assess the relative quantity of UV materials such as phosphorescent inks, paints and adhesives.









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- Phosphorescent materials
- Red pigments
- Invisible ink
- · Specialty medical adhesive

- Small spot size
- High sensitivity and high resolution
- Fast response
- Display range 00-99
- Adjustable gain
- Analog output
- PNP/NPN discrete output



UVX-300P Phosphorescence sensor



UVX-300P-FG Phosphorescence sensor >500nm spectral response



UVX-300L50 50 mm focal lens



UVX-300B Bracket



UVX-300C Cable 5P, 5M, M12, F

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.

Functions

NORMAL OPERATING MODE CALIBRATION THRESHOLD UV LED INTENSITY HYSTERESIS LEVEL DISCRETE OUTPUT OUTPUT PULSE STRETCH SECURITY TEACH MODE

Displays relative reflection intensity User sensitivity adjustment 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** Receiver Spectral Response (FG model) 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 350mm 7-Segment display | LED 350...1000nm Green LED Power 500...1000nm Red LED Detect <150uS Yellow LED Program 6kHz

> Connector M12 Pin 1

Power to 24VDC Pin 2 Discrete output PNP/NPN NO/NC Pin 3 Ground Pin 4 Analog output 0 to 5V DC Pin 5 Remote LOCK/

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

10...24 VDC 60 mA Discrete output Supply voltage -20°C...55°C -20°C...70°C

Metal alloy

95 g (0.21 lbs.)

00 to 99

0...5V

Green LED

Adjustable

Two 7 segment digits

Two 7 segment digits

NO/NC selectable

Auto-Detect PNP / NPN

IP65 NOT FOR PRESSURE WASHDOWN

UNLOCK input



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 nonconformity defect in material or workmanship.

MADE IN THE USA

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