UVX-50-T

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 provides simple, two-button teach with mark and background keys. The flexibility of the UVX makes it easy to set-up in a wide variety of printing, packaging and converting applications. The UVX is a perfect fit for many applications that require the ability to detect a luminescent mark or material.

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 and coatings applied to clear films.







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- 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

- 3.0mm spot size
- 25uS response time
- Two-button teach
- · Automatic LED intensity adjustment
- PNP/NPN
- Discrete output
- Analog output
- Small Size



UVX-50-T Luminescence sensor

Functions

OPERATING MODE MARK BACKGROUND RED LED ON GREEN LED ON YELLOW LED ON RED FLASHING GREEN FLASHING YELLOW FLASHING The UVX-50-T is in operating mode in detect or undetect state Sets mark level Sets background level

Mark detected

Background detected

Mark or background measurement in progress

Background set, measure mark Mark set, measure background

Insufficient contrast

Specifications

Light source

Sensing distance Spot size Depth of field Response time Switching Frequency **LED** intensity Sensitivity **Digital Output** Security **Background indicator Detect indicator Programming indicator Data retention Dimensions** Weight **Supply Voltage Operating Current Short Circuit Protection Overload / Reverse Polarity Protection** Operating temperature Storage temperature

Mechanical Protection

Housing

370nm UV LED, Indicators

100,000 hours Green LED | Power 28min Red LED Detect 3.0mm dia. Yellow LED Program +/- 3mm

25uS Connector M12

40kHz Power 10 to 24VDC Pin 1 3 levels Pin 2 Analog output 0 1X, 10X to 5V DC Auto-Detect NPN/PNP Pin 3 Ground LOCK/UN-LOCK keypad Pin 4 Discrete output Green LED PNP/NPN Red LED Pin 5 Remote LOCK/

Yellow LED EEPROM non—volatile memory

2.0" (51mm) x 2.4" (61mm) x 1.0" (25mm)

0.21 lbs. (95g) 10-24 VDC 60 mA Discrete output Supply voltage -20°C...55°C -20°C...70°C

Metal alloy IP65 NOT FOR PRESSURE WASH DOWN



UVX-300B Bracket



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



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.