

UVX-30-TP

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 durable plastic case and polycarbonate 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 UVX 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.

UVX

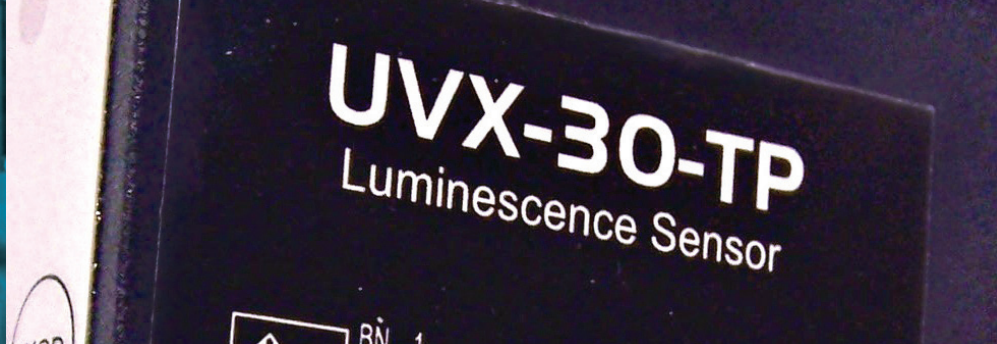


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Applications

- 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

Design & Features

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

Ordering Information



UVX-30-TP
Luminescence sensor

Accessories



130-10140362
Bracket

Functions

OPERATING MODE
MARK
BACKGROUND
YELLOW LED ON
GREEN LED ON
YELLOW FLASHING
GREEN FLASHING
YELLOW/GREEN FLASHING

The UVX-30-TP is in operating mode in detect or undetect state
Sets mark level
Sets background level
Mark detected
Background detected
Background set, measure mark
Mark set, measure background
Insufficient contrast

Specifications

Light source	370nm UV LED, 100,000 hours	Indicators	
Sensing distance	28mm	Green LED	Power
Spot size	3.0mm dia.	Yellow LED	Detect
Depth of field	+/- 3mm	Connector M12	
Response time	25uS	Pin 1	Power 10 to 24VDC
Switching Frequency	40kHz	Pin 2	Analog output 0 to 5V DC
LED intensity	3 levels	Pin 3	Ground
Gray Scale	0 to 50	Pin 4	Discrete output PNP/NPN
Digital Output	Auto-Detect NPN/PNP		
Analog Output	0...5V (20mV resolution)		
Security	LOCK/UN-LOCK keypad		
Background indicator	Green LED		
Detect indicator	Yellow LED		
Data retention	EEPROM non-volatile memory		
Dimensions	2.0" (51mm) x 2.4" (61mm) x 1.0" (25mm)		
Weight	0.21 lbs. (95g)		
Supply Voltage	10-24 VDC		
Operating Current	60 mA		
Short Circuit Protection	Discrete output		
Overload / Reverse Polarity Protection	Supply voltage		
Operating temperature	-20°C...55°C		
Storage temperature	-20°C...70°C		
Housing	Plastic		
Mechanical Protection	IP65 NOT FOR PRESSURE WASH DOWN		

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.