UVX-300G-C

LUMINESCENCE SENSOR
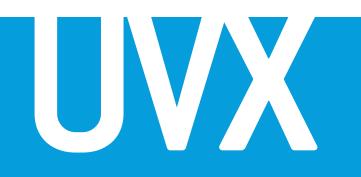
Confirm manufacturing processes more reliably than vision systems that cost ten times more. The UVX™ employs our field-proven, patented technology, for effective detection of glues and adhesives in assembly, manufacturing and packaging processes. It can be used to check for gaps in glue dispensing operations, 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 adjustable gain, 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 optical brightener coatings applied to clear films.

UVX

EMX

INDUSTRIES

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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

- Small spot size
- High sensitivity and high resolution
- Fast response
- Display range 00-99
- Adjustable gain
- Analog output
- PNP/NPN discrete output
- FGC model for suppression of blue

Ordering Information

UVX-300 G-C
Luminescence sensor

UVX-300 G-FGC
Luminescence sensor
>500nm spectral response

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.

Functions

NORMAL OPERATING MODE	Displays relative reflection intensity
CALIBRATION	User sensitivity adjustment
THRESHOLD	Set detection level
UV LED INTENSITY	Set LED, LO, MED, HI
HYSTERESIS LEVEL	Set undetect level 1-9 steps below threshold
DISCRETE OUTPUT	Set normally open or normally closed
OUTPUT PULSE STRETCH	Set minimum output period 10…90mS
SECURITY	Lock/unlock pushbutton controls
TEACH MODE	Auto-set detection threshold

Specifications

Light source	370nm UV LED, 100,000 hrs.	**Indicators**	
Light spot size	6...8mm dia. @ 50mm	7-Segment display	LED
Light source intensity	3 levels	Green LED	Power
Sensing distance	up to 350mm	Red LED	Detect
Receiver Spectral Response	350...1000nm	Yellow LED	Program
Receiver Spectral Resonse (FGC model)	500...1000nm		
Response time	<150uS	**Connector M12**	
Switching Frequency	6kHz	Pin 1	Power to 24VDC
Relative intensity display range	00 to 99	Pin 2	Discrete output PNP/NPN NO/NC
Sensitivity	Adjustable	Pin 3	Ground
Signal level	Two 7 segment digits	Pin 4	Analog output 0 to 5V DC
Detection threshold	Two 7 segment digits	Pin 5	Remote LOCK/UNLOCK input
Digital Output	Auto-Detect PNP / NPN		
Output Function	NO/NC selectable		
Analog Output	0…5V		
Power indicator	Green LED		
Detect indicator	Red LED		
Programming indicator	Yellow LED		
Data retention	EEPROM non—volatile memory		
Dimensions	51mm x 61mm x 25mm (2.0" x 2.4" x 1.0")		
Weight	95 g (0.21 lbs.)		
Supply Voltage	24 VDC		
Operating Current	60 mA		
Short Circuit Protection	Discrete output		
Overload / Reverse Polarity Protection	Supply voltage		
Operating temperature	-20ºC…55ºC		
Storage temperature	-20ºC…70ºC		
Housing	Metal alloy		
Mechanical Protection	IP65 NOT FOR PRESSURE WASHDOWN		

UVX-300G-FGC
Spectral response

MADE IN THE USA