

UVX Tin-side Mini

ON - LINE D E T E C T I O N S Y S T E M

The tin-side detection system employs our field-proven, UVX™-based sensor, to accommodate the special requirements for reliable tin-side glass detection.

Identification of the tin-side of float-glass is important to glass processors in laminating, printing and specialty coating applications.

The Control Unit provides a display with a 00-99 range and access to set-up parameters and threshold adjustment. The output of the Control Unit is a discrete, NPN/PNP that indicates when the signal level exceeds the threshold setting which occurs when viewing the tin-side. The Control Unit may be mounted to provide easy access to the controls and display.

The Optical Unit is mounted at approximately 5-10mm from the surface of the glass. A green LED indicates power. The enclosure provides 2 mounting holes for customer-supplied bracket/hardware. The Optical Unit also functions as a shroud over the sampling area to minimize exposure to the UV light source and prevent interference from ambient light. The light source is field replaceable by properly trained technicians.

UVX





Applications

- Detect tin-side of glass
- Laminating
- Printing
- Specialty coatings
- Glass processing

Design & Features

- Small spot size
- Remote mounted display and control
- Fast response
- Display range 00-99
- Adjustable gain
- Analog outputs
- PNP/NPN discrete output

Ordering Information



UVX-300G-C-CU
Control Unit



OU-TS2
Optical Unit, tin-side mini



M12-10-2-MF
Cable, 10P, 5M, M12, M/F

Accessories



UVX-300B
Bracket



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



Power Supply
Regulated 24VDC

**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	Deep UV	Indicators	7-Segment display	LED
Light spot size	1...2mm		Green LED	Power
Light source intensity	3 levels		Red LED	Detect
Sensing distance	5...10mm		Yellow LED	Program
Response time	<150uS			
Switching frequency	6kHz	Connector M12	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	LED enable 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			
UVX-300G-C-CU (receiver)				
Dimensions	51mm x 61mm x 25mm (2.0" x 2.4" x 1.0")			
Weight	95 g (0.21 lbs.)			
OU-TS2 (transmitter)				
Dimensions	41mm x 86mm x 91mm (1.6" x 3.38" x 3.55")			
Weight	500g (1.1 lbs.)			
Supply voltage	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	Metal alloy			



WARNING: HIGH INTENSITY UV LIGHT, WEAR EYE AND SKIN PROTECTION.

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.

MADE IN THE USA

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UVX Tin-side

ON - LINE D E T E C T I O N S Y S T E M

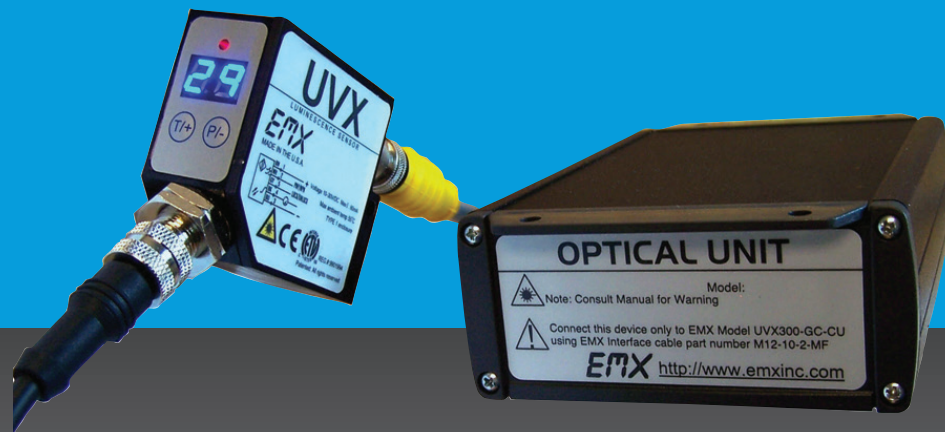
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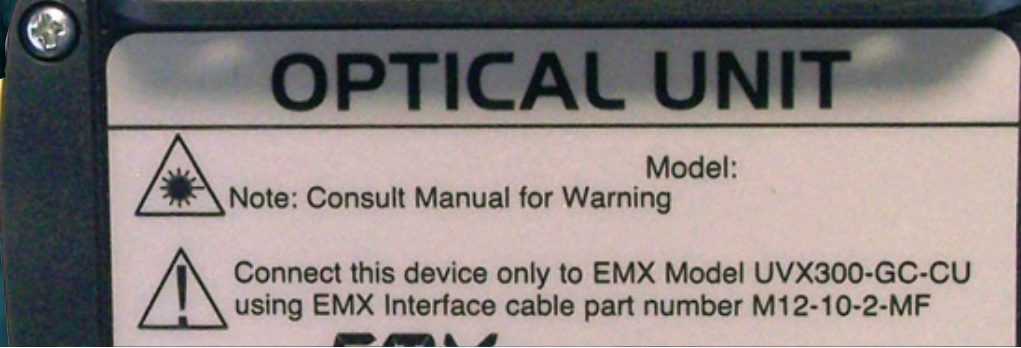
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Light spot size
Light source intensity
Sensing distance
Response time
Switching frequency
Relative intensity display range
Sensitivity
Signal level
Detection threshold
Digital output
Output function
Analog output
Power indicator
Detect indicator
Programming indicator
Data retention
UVX-300G-C-CU (receiver)
Dimensions

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1...2mm
3 levels
5...10mm
<150uS
6kHz
00 to 99
Adjustable
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

Indicators

7-Segment display LED
Green LED Power
Red LED Detect
Yellow LED Program

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 LED enable input

51mm x 61mm x 25mm
(2.0" x 2.4" x 1.0")
95 g (0.21 lbs.)

Weight
OU-TS (transmitter)
Dimensions

51mm x 106mm x 167mm
(2.0" x 4.2" x 6.6")
500g (1.1 lbs.)

Weight
Supply voltage
Operating current
Short circuit protection

24 VDC
60 mA

Overload / reverse polarity protection
Operating temperature
Storage temperature
Housing

Discrete output
Supply voltage
-20°C...55°C
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Metal alloy



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