

# UVX Tin-side Mini

## O N - L I N E 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



**EMX Industries, Inc.**

4564 Johnston Parkway, Cleveland, Ohio 44128

P. 800 426 9912 F. 216 518 9884

**Sales Inquiries:** [salesupport@emxinc.com](mailto:salesupport@emxinc.com) **Technical Support:** [technical@emxinc.com](mailto:technical@emxinc.com)  
[www.emxinc.com](http://www.emxinc.com)



## 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**  
**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**

Deep UV  
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-TS2 (transmitter)**  
**Dimensions**

**Weight**  
**Supply voltage**  
**Operating current**  
**Short circuit protection**  
**Overload / reverse polarity protection**  
**Operating temperature**  
**Storage temperature**  
**Housing**

41mm x 86mm x 91mm  
(1.6" x 3.38" x 3.55")  
500g (1.1 lbs.)  
24 VDC  
60 mA  
Discrete output  
Supply voltage  
-20°C...55°C  
-20°C...70°C  
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.