

# USVD-4X

ULTRASONIC VEHICLE DETECTOR

## Applications

This device uses patent pending Triangular Planar Array (TPA) technology to reliably detect the presence of a vehicle in a wide variety of drive-thru applications including parking, access control, car wash, banking and fast food. Unlike a vehicle loop detector configuration that requires the installation of a loop in the pavement, the USVD may be simply mounted on a post or order box and aimed at the location of the vehicle when in position to perform a transaction or place an order. Also, unlike other technologies, the USVD does not require any set up or functional adjustments, other than simply installing and aiming. The USVD greatly reduces the cost associated with installation of vehicle detection capabilities compared to loop detectors for these types of applications.

The USVD requires 12-24VDC/VAC and provides a form "C" set or relay contacts indicating vehicle presence.

Utilizing TPA technology, the detection head consists of 4 ultrasonic transducers that connect to the internal microprocessor-based control board. The detection head "scans" the expected location for a vehicle and activates its output upon detection of a vehicle.

# USVD



**EMX**

INDUSTRIES

**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)

## ULTRASONIC VEHICLE DETECTOR

- Easy Set up
- Reduces Cost
- Triangular Planar Array Technology
- Streamlining Operation
- Robust design
- Aux. relay, settings for pulse on ENTRY, EXIT or BOTH
- Output delay option for 1, 2 and 4 seconds

### Accessories



USVD-4X

### Technical Data

<b>Sensing elements</b>	4 ultrasonic in TPA* configuration
<b>Operating range</b>	1ft. – 5ft.
<b>Response time</b>	2.0 seconds
<b>Relay output configuration</b>	2 SPDT (form C)
<b>Relay contact rating</b>	1A @ 24VDC...120VAC
<b>Power indicator/no vehicle</b>	Green LED
<b>Object in range</b>	Flashing Green LED on each input, continuous LED on DETECT
<b>Supply Voltage</b>	12...24 VDC/VAC
<b>Operating current</b>	60mA
<b>Operating Temperature</b>	-40°C...+85°C (-40°F...+182°F)
<b>Dimensions</b>	5.7"(145mm) x 3.6"(90mm) x 2.3"(57mm)
<b>Weight</b>	0.6 lbs. (275g)
<b>Housing</b>	ABS NEMA 4X
<b>Connection</b>	10 position terminal block
<b>Mechanical protection</b>	NEMA 4X

\* Patent pending Triangular Planar Array

### Ordering Information

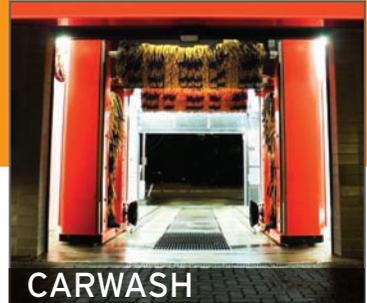
- USVD-4X Ultrasonic Vehicle Detector



BANK



PARKING



CARWASH



PHARMACY



FAST FOOD

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. 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. Rev 1.1 05/29/2013

