

Vehicle Loop Detector

- Loop Diagnostics
- Loop Isolation Transformer
- **6** Loop Conditioner
- Shield Housing
- **Surge Protection**
- Loop Frequency Counter
- I0 Gold Plated Sensitivity Controls
- 6 8 Gold Plated Function Controls
- 6 Gold Plated & Sealed Controls for Frequency, Reset & Frequency Counter
- Two High Intensity LED Indicators



We at EMX have designed the new D-TEK Vehicle Loop Detector with the following objectives in mind:

- 1. Allow for easy installation into small operator housings.
- 2. All the controls must be accessible from the outside for easy installation and operation.
- 3. Detector must operate reliably with marginal loops.
- 4. Provide all the features and controls necessary for a variety of applications.
- 5. Use metal housing for maximum durability and RF blocking.
- 6. Provide maximum surge protection on all inputs and outputs of the detector.

Industries Inc. 15437 Neo Park, Cleveland OH 44128 • Tel: 800-426-9912, 216-518-9888 Fax: 216-518-9884 • Email: sensors@emxinc.com • Web: www.emxinc.com

Technical Specifications

POWER:	The detector is available in the following voltages, 12V AC/DC, 24V AC, 24V DC, 110V AC, 220V AC. Maximum current draw 100mA
LOW POWER	Detector is available with maximum current draw of 60mA
TEMPERATURE:	-40F to + 180F
ENVIRONMENTAL PROTECTION:	Circuit board is conformally coated
ENCLOSURE:	Extruded anodized aluminum, Height = 3.25 inches 83 mm – Width = 2.56 inches 40 mm – Depth = 3.65 inches 90 mm
OUTPUT RELAYS:	5A/125 V AC standard version, 1A/125 V AC low current version
CONNECTOR:	86CP11 compatible with 11pin Octal DIN rail mountable socket or wire harness
SURGE PROTECTION:	The detector is protected with neon discharge lamps, zenner diods and surge arrestors
LOOP INPUT:	Transformer isolated
GROUNDED LOOP:	The loop isolation transformer allows operation with poor quality loops
LOOP INDUCTANCE RANGE:	20 to 2000 microhenries with Q factor of 5 or higher
TUNING:	Detector automatically tunes to the loop after power application or reset
TRACKING:	Detector automatically tracks and compensates for environmental changes
POWER INDICATOR:	Green LED solid light indicates power
LOOP FAILURE INDICATOR:	Green LED blinks indicates loop problem
LOOP FAILURE MEMORY:	Green LED blinks with fast consecutive blinks indicates past loop problem that healed
DETECT INDICATOR:	Red LED solid light indicates detection
EXTEND INDICATOR:	Red LED blinks after a car left the loop indicates time extend feature
SENSITIVITY:	Is set by 10 position rotary switch
FREQUENCY:	Is set three position toggle switch
INFINITE PRESENCE MODE:	DIP switch selectable presence
LIMITED 4 MINUTES:	DIP switch selectable presence
PRESENCE TIME:	DIP switch selectable
SECOND PRESENCE RELAY:	DIP switch selectable
PULSE ON EXIT / ENTRY:	DIP switch selectable
FAIL SAFE / SECURE:	DIP switch selectable
FILTER:	DIP switch selectable 2 seconds
EXTENDED DETECTION:	DIP switch selectable 3, 6 and 9 seconds



Industries Inc. 15437 Neo Park, Cleveland OH 44128 • Tel: 800-426-9912, 216-518-9888 Fax: 216-518-9884 • Email: sensors@emxinc.com • Web: www.emxinc.com