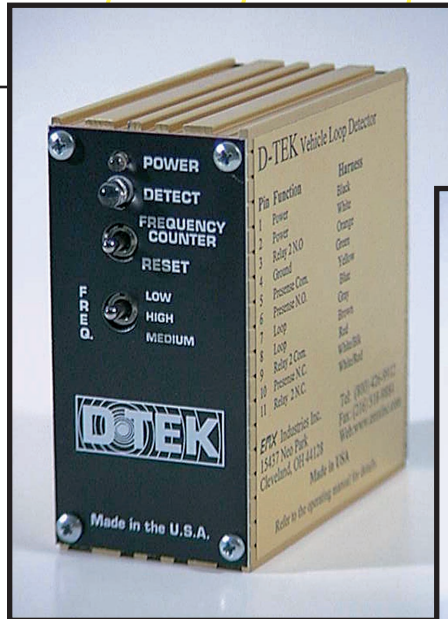




Vehicle Loop Detector

- ① Loop Diagnostics
- ① Loop Isolation Transformer
- ① Loop Conditioner
- ① Aluminum RF Shield Housing
- ① Surge Protection
- ① Loop Frequency Counter
- ① 10 Gold Plated Sensitivity Controls
- ① 8 Gold Plated Function Controls
- ① 6 Gold Plated & Sealed Controls for Frequency, Reset & Frequency Counter
- ① 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.



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
GROUNDING 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 In fail secure mode relay 2 will indicate loop fail
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

