

D-TEK BOX

VEHICLE LOOP DETECTOR

Applications

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.

D-TEK BOX



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Indicators & Controls

- **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
- **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

Accessories



Harn-11



LD-11



PR Loop

Technical Data

Temperature
Environmental Protection
Enclosure

Output Relays
Connector
Surge Protection
Loop Input
Grounded Loop
Loop Inductance Range
Tuning
Tracking
Sensitivity
Frequency
Infinite Presence Mode
Limited 4 Minutes
Presence Time
Second Presence Relay
Pulse On Exit / Entry
Fail Safe / Secure
Filter
Extended Detection

-40°F to + 180°F
Circuit board is conformally coated
Extruded anodized aluminum,
Height = 3.25 inches 83 mm – Width = 2.56 inches 40 mm – Depth = 3.65 inches 90 mm
5A/125 V AC standard version, 1A/125 V AC low current version
86CP11 compatible with 11pin Octal DIN rail mountable socket or wire harness
The detector is protected with neon discharge lamps, zenner diods and surge arrestors
Transformer isolated
The loop isolation transformer allows operation with poor quality loops
20 to 2000 microhenries with Q factor of 5 or higher
Detector automatically tunes to the loop after power application or reset
Detector automatically tracks and compensates for environmental changes
Is set by 10 position rotary switch
Is set three position toggle switch
DIP switch selectable presence
DIP switch selectable presence
DIP switch selectable
DIP switch selectable
DIP switch selectable
DIP switch selectable
DIP switch selectable 2 seconds
DIP switch selectable 3, 6 and 9 seconds

Ordering Information

- D-TEK-12 12 VDC
- D-TEK-24VDC 24 VDC
- D-TEK-24VAC 24 VAC
- D-TEK-110 110 VAC
- D-TEK-120 110VAC W/piggyback plug
- D-TEK-110-MS 110VAC w MS connector
- HAR-11 11 Pin Harness 3 ft wire
- LD-11 11 PIN DIN Socket
- PR-XX Preformed loop XX = loop size in inches

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 2.1 07/09/08