



JUTAI RFID



PD-150 Series Single Channel Vehicle Detector

Description

Loop detectors in recent years have become a popular tool having innumerable applications in policing, right from surveillance operations to traffic control. Automation of gates and doors has become a popular usage of the loop detector.

The digital technology of the loop detector enables the equipment to sense a change in the inductance of the loop as soon as it detects the metal object in its path. The inductive loop which detects the object is made of insulated electrical wire (32/020; 32 Strand, 2mm diameter) and is arranged either as a square or rectangle shape.

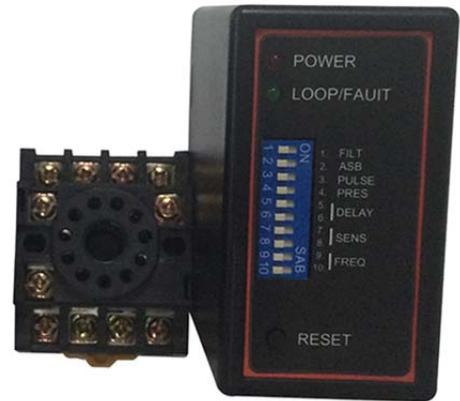
The loop consists of several loops of wire and consideration should be giving to the loop sensitivity when installing on different surfaces. Setting the correct sensitivity allows the loop to operate with maximum detection (4 levels via a DIP switch). When detection occurs, the detector energises 2 relays for the output (each can be configured individually). This energising of the relay can be configured into different modes, by selecting the respective dip switch.

The PD-150 Enhanced Vehicle detector is also provided with an integral fault relay, which will provide an output in the event of a loop fault condition.

Features

Compact Size: the compact and well engineered housing Combines all of the industry requirements regarding Features and functionality and allows this detector to be Incorporated into any or existing traffic detection system.
Diagnostic Capabilities: Comprehensive diagnostics Capabilities allow for accurate diagnosis of loop and Installation problems.

Selectable Presence Time: The output of the presence Relay can be selected to limit a detect output to a fixed time(time>30 minutes)while a vehicle remains on the loop
Loop Frequency Indication: Interference between adjacent loop/detectors can be determined by an integral indication, and eliminated by changing the frequency setting.



Applications

- Traffic Control Application
- Vehicle Counting
- Toll Systems
- Traffic Analysis
- Parking Control Application



PD-150 Series single channel vehicle detector

Technical Details:

Faceplate LED indicators

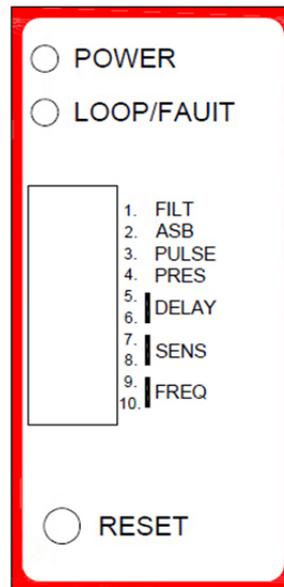
Red –Power

Green –Loop/Fault:

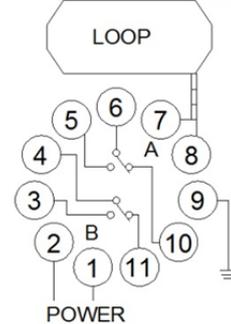
1. Undetect -off
2. Detect – on steady
3. Fault – flashing

Faceplate Setting:

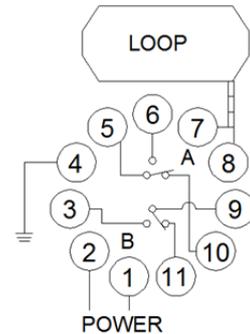
1. Sensitivity
2. Filter
3. ASB
4. Pulse Relay
5. Presence Time
6. Delay Time
7. Frequency



PD-150, PD-152
Standard Model Wiring



PD-155, PD-156
Standard Model Wiring



Specifications

Self-tuning range: 20-2000μH

Response Times: Turn-on 10-90MS
Turn-off 10-90MS

Sensitivity: 4 way selectable
Highest 0.020% DL/L
Lowest 1.2% DL/L

Visual Indications: Power LED-Red
Channel LED-Green

Reset: Reset by push button on front
of enclosure

Frequency: Four step switch
selectable 20-80KHz

Relay Output: Presence Relay/Fault Relay

Power Requirements: 110-240VAC (48 to 62Hz)
12-24VADC(48 to 62Hz)

Operation Temp: -40°C to +70°C
(-111°F to +158°F)

Humidity: Up to 95% relative humidity
without condensation

Fault Output: Blinks slowly: It maybe because
the loop is short circuit or the no:
of turns is not enough.
Blinks faster: It maybe because
the loop is open or the no: of
turns is too many.

Ordering Information:

PD-150 single channel, boxed, 1 type 11pin connects 100-240VAC

PD-152 single channel, boxed, 1 type 11pin connects 12-24VADC

PD-155 single channel, boxed, 2 type 11pin connects 100-240VAC

PD-156 single channel, boxed, 2 type 11pin connects 12-24VADC