Smart Techo

Loop detector model : STPD - 132

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THE LOOP DETECTOR SYSTEM , EASY TO INSTALL,
SAFE TO USE AND SIMPLE TO MANAGE.

Introduction

STPD-132 Inductive Vehicle Single Loop Detector for Automatic Gate opener barrier gate Traffic Inductive Vehicle access

The detector must be installed in a convenient weatherproof location as close to the loop as possible. Installation location must choose to stay away from the heat source, it around other devices must maintain a distance of at least 10mm (mustn't fix cling to the cabinet). A correct loop configuration and detector installation will ensure a successful inductive loop detection system. Loop of several important parameters include: loop figure, size, and turns, install methods (details as "Loop installation guide").

Application

Barrier gates , road blockers , bollards , parking systems

Specification:

Working voltage	**AC 230/110 V ±10%, 50 Hz**
Power Consumption:	**4,5 W**
Voltage of relay	**AC : 120 V/ 3 A**
Output relays	**: 240V/5A**
Working temperature	**-20°C~+65°C**
Working humidity	**10% ~ 90%**
Working frequency	**20 кHz~170 кHz**
Time Infinite presence	**limited presence 5 minutes**
Sensitivity:	**Adjustable in 4 increments**
Reaction time	**10 ms**
Recommended inductance of the coil	**80-300 μH**
Loop connection wiring	**Maximum length 20 meters, twisted at least 20 times per meter**
Size	**78x40x108 mm**
Package Gross Weight	**0.400kg**

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Operation and Indication

While the detector is tuning, the green Channel LED and red Power LED will be turn on. It remain about 2 seconds, then the green LED turn off. If a loop fault exists the Channel LED will come on and flash indicating a fault. If the fault is self-healing the detector will continue to operate.The green channel LED will also glow whenever a vehicle is detected passing over the inductive loop. The red Power LED at the top of the unit will remain on to indicate that the unit is powered.

Frequency

To eliminate interference of two neighbouring wire loops or loop detectors, the frequency can be altered.

Sensitivity

The sensitivity of the detector allows the detector to be selective as to the change of inductance necessary to produce an output. There are four sensitivity selections and are set as follows by DIP3 and DIP4 Switch.

Automatic Sensitivity Boost

Automatic sensitivity boost is selected by DIP5 switch on the front of the enclosure and is set as follows: OFF - Disabled, ON - Enabled.
Automatic sensitivity boost causes the sensitivity to be boosted to a maximum on detection on the vehicle, and maintained at this level during the presence of the vehicle over the loop. When the vehicle departs the loop and detection is lost the sensitivity reverts to the pre-selected level.