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# SINGLE LOOP DETECTOR



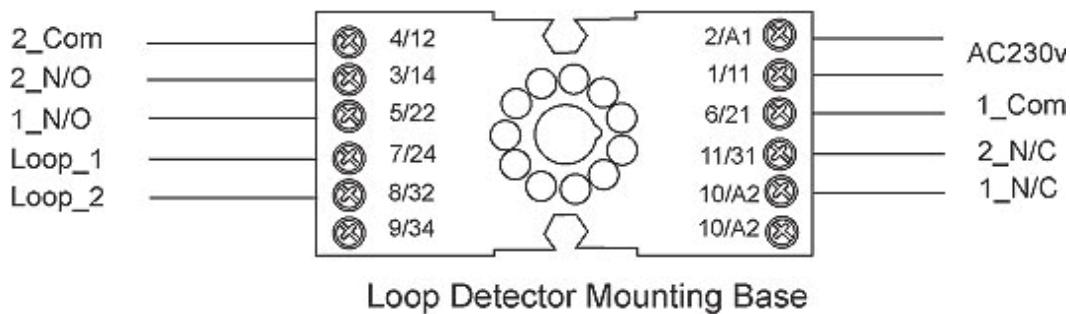
**model : TLD-110**

**TLD-110** is a single channel loop detector. The principle is based on a change in the inductance with the loop which is caused by the metallic component of passing vehicles which are picked up & evaluated by a microprocessor.

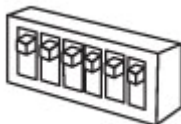
## Technical Specification

Model	TLD-110
Supply voltage AC	220v
Sensitivity	Adjustable in 3 increments
Operating Temperature	-20°C to +65°C
Reaction time	100ms
Frequency range	20kHz to 170kHz
Loop Inductance	Ideal is 80µH to 300µH
Loop Connection	<5m optimal
Loop Connection Wiring	Maximum length 200 meters, twisted at least 20 times per meter
Dimension	35 (W) x 74 (H) x 85 (L)mm
Weight	300g
Color	Red

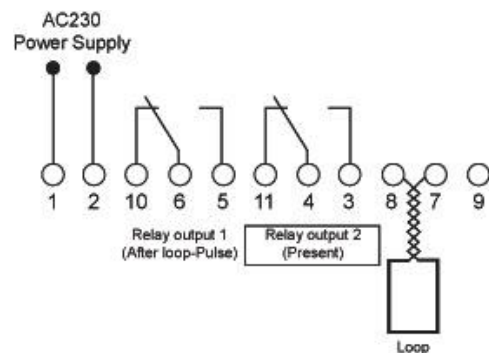
## Mounting Base



## Wiring Diagram



- Dip switch = OFF Position
- Red LED = Power on
- Green LED = Loop coil Error Indication
- Sensitivity = High: Bicycles can be detected
- = Medium: for automobiles
- = Low: preferable lorries will be detected (ensure that the loops is NOT activated when making these adjustment)



Loop Detector Connecting Diagram

## Installation Information

### Loop and feeder specification

The loop must consist of insulated wire with a minimum copper cross-sectional area equivalent to 1.5 mm<sup>2</sup>. The feeder should be of the same material but twisted a minimum of 20 twists per meter. Joints in the loop or feeder are not recommended. Where this is not possible, joints are to be soldered and terminated in a waterproof joint bow. This is extremely important for reliable detector performance. When long loop feeders are used, or feeders are routed together with other electrical wiring, the use of a screened cable is suggested for the feeder. The screen must be earthed at the detector end only.