

TENET

TLD-110 Single Channel Vehicle Loop Detector

Introduction

TENET TLD-110 is a single channel vehicle 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 and evaluated by a Microprocessor.

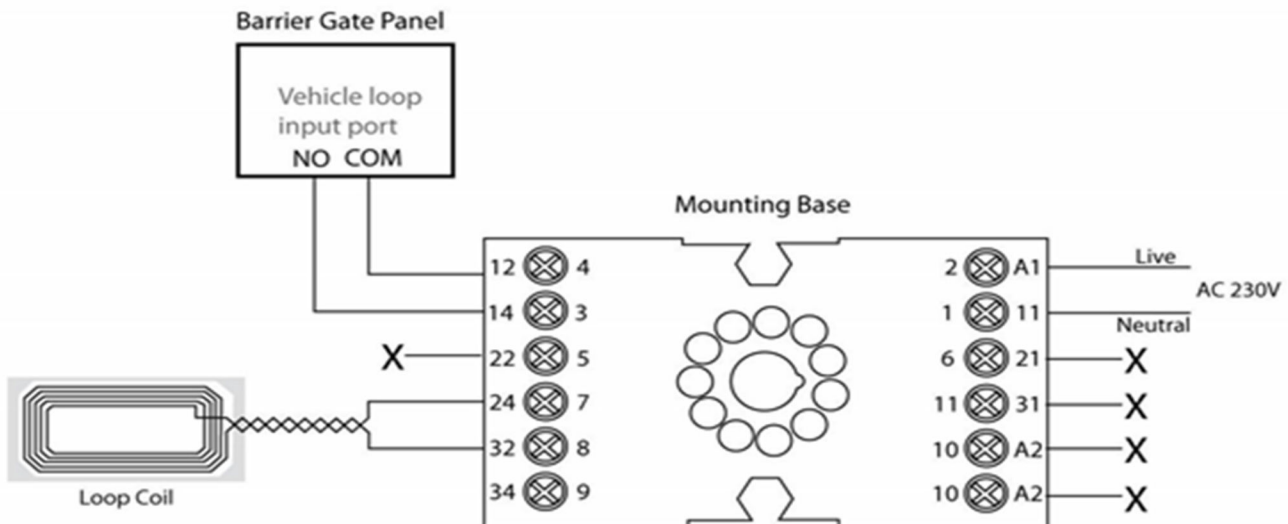
TLD-110 simplified design is well balance between affordability and performance stability, an ideal solution for site that requires standard funtion.



Specification

Supply voltage AC	220V
Sensitivity	Adjustable in 3 increments
Operating temperature	-20°C to +65°C
Reaction time	100ms
Frequency range	20 kHz to 170 kHz
Loop inductance	Ideal is 80μH to 300μH
Loop connection	< 5 m optimal
Loop connection wiring	Maximum length 200 meters, twisted at least 20 times per meter
Dimension	35 x 74 x 85 mm (W x H x L)
Net Weight	300g

Connection Diagram

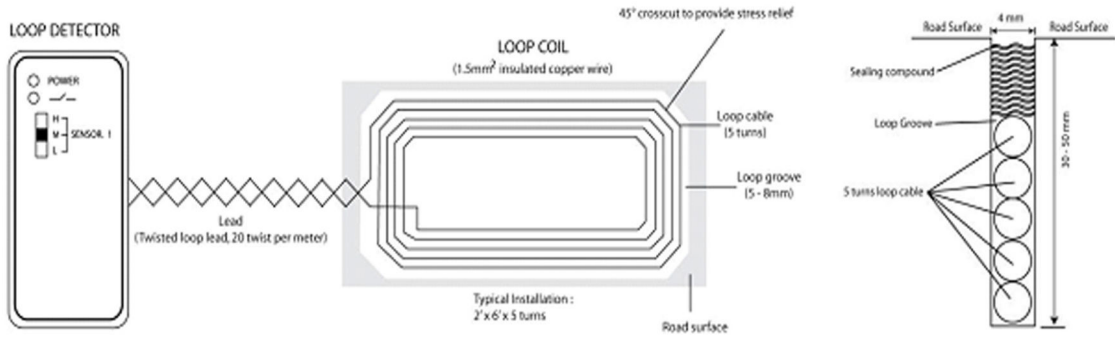


Installation

Loop and feeder specification

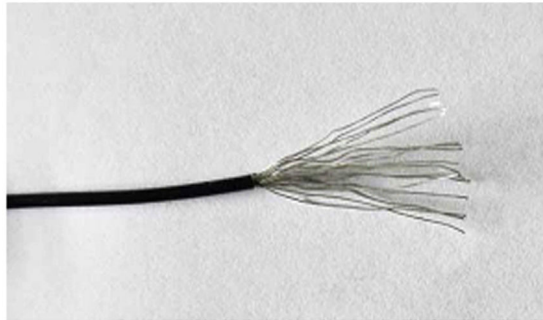
The loop must consist of multi-strand insulated copper wire with cross-sectional area equivalent to 0.75mm² and above. The insulator of the wire must be able to withstand high temperature and corrosion. Do not use single-strand copper wire as it will easily break.

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

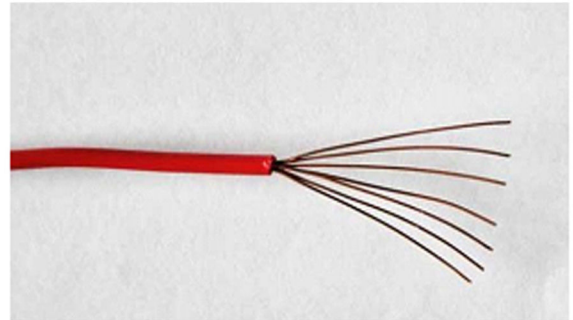


Top View

Side View

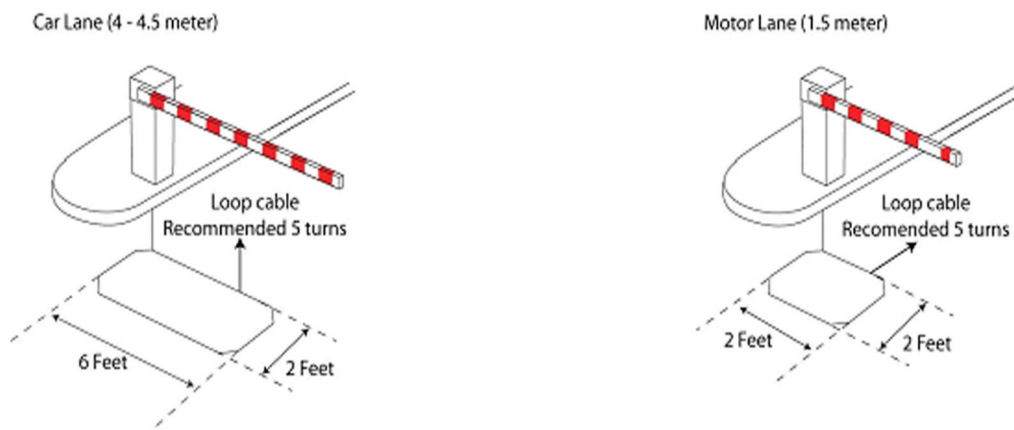


High temperature loop cable
(RECOMENDED)



Standard loop cable

Typical installation diagram



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