

10-3. Long Lead-in cable Loop Detector (LLLD) Sensor Unit

General

Each Long Lead-in cable Loop Detector (LLLD) sensor unit shall comply with the following:

1. Chapter 5 of the Transportation Electrical Equipment Specifications (TEES),
2. Section 86-5.01 of the Standard Specifications.
3. The enhancements as specified in this specification.

Each LLLD sensor unit shall have 2 channels and shall be capable of detecting Agency licensed vehicles on a single Type A or E loop with a 3000 feet lead-in-cable.

Sensitivity

Each LLLD sensor unit channel shall have a sensitivity based on delta L threshold rather than delta L (only). There shall be 8 threshold levels corresponding to 8 nH, 16 nH, 32 nH, 64 nH, 128 nH, 256 nH, 512 nH and 1024 nH.

Variations

Each LLLD sensor unit channel shall be permitted the following exceptions to the TEES and Standard Specifications:

1. Three frequency settings minimum.
2. The operating frequency of 40 kHz is not required as long as the sensor unit adheres to all other FCC rules.
3. The minimum Q requirement of 5 is not required if all other functional requirements are met.
4. Pulse mode requirements may vary from TEES but are subject to the approval of the Engineer.

Certificate of Compliance

The Contractor shall provide the Engineer with a Certificate of Compliance from the manufacturer in accordance with the provisions of Section 6-1.07, "Certificates of Compliance" of the Standard Specifications for each LLLD sensor unit furnished.

Warranty

Each LLLD sensor unit shall have a complete manufacturer's warranty of at least 1 year parts.