

Inductive Loops

Vehicle Presence Detection Sensors

An inductive loop is a wire wrapped around and around to form an inductor. The inductance of this loop depends upon the loop area and the number of turns of the wire. The loop's inductance changes and produces a readable signal when a vehicle passes over it. Inductive loops may be used alone or can be incorporated with other traffic sensors to provide information regarding vehicle presence.

IRD offers three different standard inductive loops:

Model 8050 Permanent Loop Kit - to create loops of various dimensions for installation with epoxy in paved roads. The loop wire and lead-in cables are placed into saw-cuts in the roadway. Loop Sealant is used to secure the loop wire into the roadway. Permanent inductive loops are designed for use in Asphalt Concrete (A/C) or Portland Cement Concrete (PC/C) roadways with a pavement thickness of 4" (10 cm) or greater.

Model 8064 Quick Stick Loop - for easy installation of temporary loops. These loops come pre-assembled; you only need to clean the area, remove the adhesive backing, and stick the loop to the road surface. It has an 18" (46 cm) lead wire stub using a 2 pole connector. Lead wire from the counter or other electronics can be attached to the lead stub, and when you are finished with the loop, simply unplug the 2 pole connector.

Preformed Loop - can be paved over for installation in new roads. The preformed loop consists of an insulated loop wire set inside a non-metallic flexible conduit with a water tight, sealed lead-in connection. It can be set in place for new paving, concrete pours, gravel roadways and brick pavers.



MODEL 8050 PERMANENT LOOP KIT

- 200 feet (61 m) of 14 AWG loop wire
- 200 feet (61 m) of 18 AWG lead in wire
- Splicing material
- 7 tubes of loop sealant

MODEL 8064 QUICK STICK LOOP

- 3.5' x 6.5' (1 m x 2 m) preformed loop includes:
- 18" (46 cm) of 22 AWG connectorized lead in wire
- Stubbed 2 pole connector
- 4 turns of loop wire

PREFORMED PAVE-OVER LOOP

- Over 25 standard loop sizes available from 2' x 6' to 6' x 30' (0.6 m x 1.8 m to 1.8 m x 9.1 m)
- 16 or 18 AWG loop wire
- Standard lead lengths available from 20' to 100' (6.1 m to 30.5 m)
- 16 or 18 AWG lead in wire



MODEL 8050 PERMANENT LOOP



Model 8064 Quick Stick Loop

Custom loop wire sizes and lead in lengths are available. IRD will package and customize kits to comply with most state/provincial and local specifications.

IRD also stocks road tube and offers a complete array of road accessories, epoxies, and grouts for installations.

Please contact us for all your traffic classifier, counter, sensor and Weigh-In-Motion (WIM) requirements.



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