


# INDUCTIVE LOOP DETECTOR

## In-Ground Sensor

Inductive Loop Detector (ILD) is one of the most popular traffic detectors in use. Classified as a passive sensor, it works based on the principle of mutual inductance. It detects vehicle's presence by measuring the change in inductance caused by the vehicle passing over a wire loop buried under the road surface.

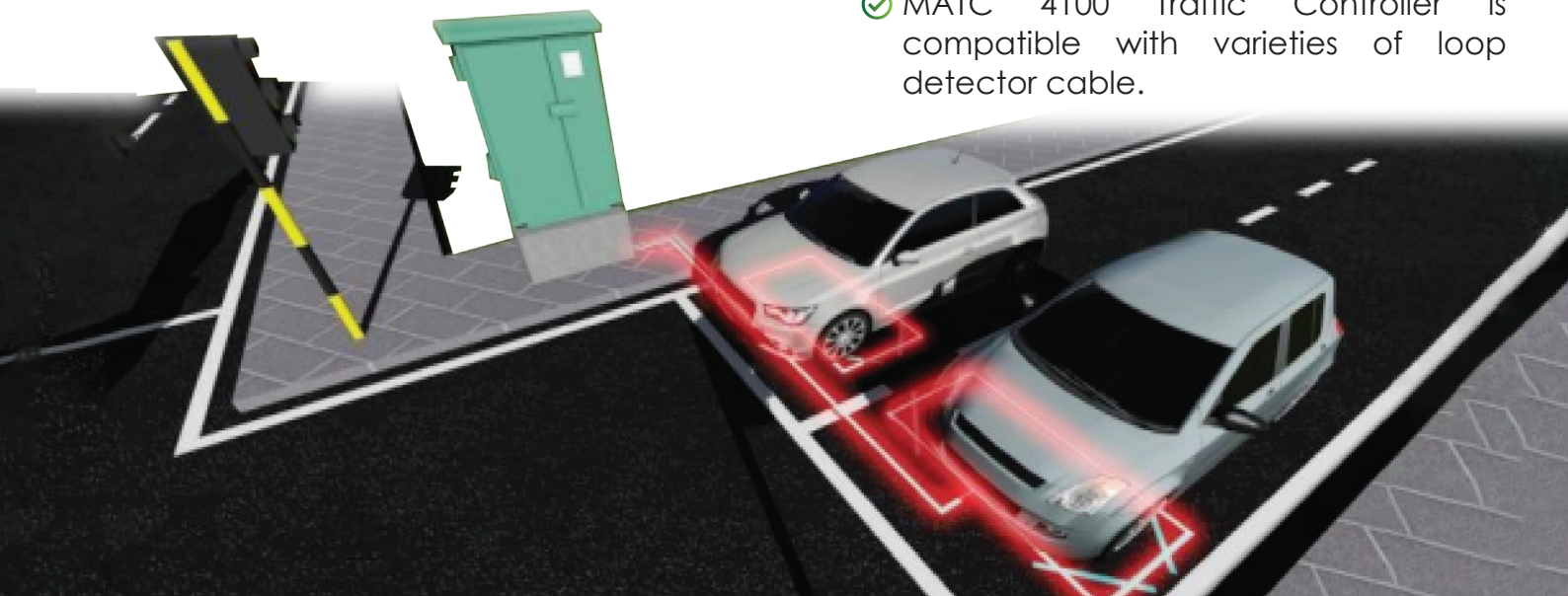
The peripheral metal of the vehicle triggers an electronics output relay or solid-state optically isolated output, sending a pulse to the traffic controller, signifying the presence of a vehicle via vehicle detector card (VDC) which triggers our advanced processing unit (APU) to compute the next action based on our programmed system.



The loop sensor cable is consisting of multi strands copper cable insulated by PVC or FEP (Fluorinated Ethylene Propylene).

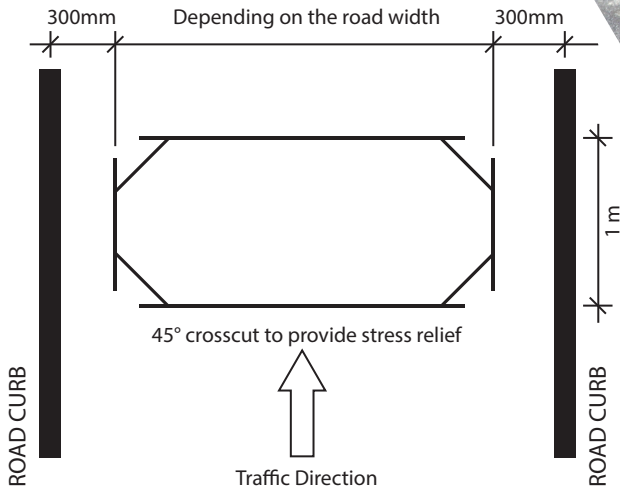
## Loop Detector Cable

- ✔ Excellent flame-resistance and aging resistance hence the long service life.
- ✔ Great corrosion and oil resistance.
- ✔ Strong acid and strong alkali resistance.
- ✔ Good electrical insulation properties and no moisture absorption.
- ✔ Resistant to high voltage.
- ✔ MATC 4100 Traffic Controller is compatible with varieties of loop detector cable.



**QUALITY POLICY**

It is our commitment to provide the service with the highest standard of safety, quality and reliability that meet the specified requirements and expectations.

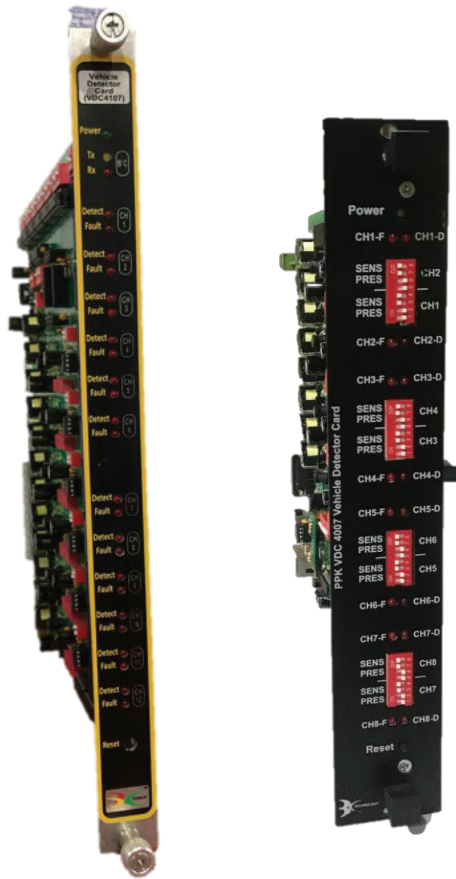


**Specifications**

<b>DETECTOR LOOP CABLE</b>	1c. 2.5 mm <sup>2</sup> / 4.0 mm <sup>2</sup> sq. (minimum 50 strands) heat resistance cable in heavy-duty high impact insulation PVC or FEP conduit
<b>LOOP FEEDER CABLE</b>	2c. 1.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup> PVC/SWA/PVC in G.I Pipe
<b>DETECTOR PIT</b>	300 mm x 300 mm Precast Concrete
<b>MINIMUM DEPTH</b>	20 mm average, 13 mm minimum unless stated otherwise on design plan
<b>SAW CUT</b>	6 mm width. All saw cuts to be on the upstream side of the stop line
<b>SEALANT</b>	Bitumen slot sealant

**Vehicle Detector Card**

- ✔ Modular and compact card with 32-bit microprocessor chip.
- ✔ Adjustable frequency setting to eliminate interference between adjacent loops.
- ✔ Designed to cater up to 12 channels with ability to set presence sensitivity control for each channel.
- ✔ Faceplate LED indicators visualise the condition of each channel as well as the card's operational and communication status.



**DISCLAIMER**

All information provided herein is for information purposes only and does not constitute a legal contract between PPK Technology and any person or entity unless otherwise specified. PPK Technology reserves the unconditional right to discontinue or make changes to product and product specifications without prior notice to improve the product's reliability, function or design.

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