

# LOOP DETECTOR KDS-2001

## Product Specification



Loop Detector to detect the presence of a vehicle through a wire loop embedded in the roadway. The unit is fully self adjusting and does not require manual tuning. Automatically compensates for environmental conditions and deteriorating roadways. Interfaces with a gate, counter or other devices through an 11 pin connector on the back of the detector.

### A. OPERATION

The Loop Detector shall be modular construction, all logic and controls shall be self-contained in one plug in module. The detector circuitry shall be digital solid state with a built in power supply.

The detector shall be capable of operating accurately and reliably with overlapping loop configurations.

To insure optimum accuracy, the detector shall have automatic timing. Tuning shall be accomplished in less than one second. No manual adjustments shall be acceptable.

For rapid visual check of detector performance, a visible solid state indicator shall be provided on the front panel of the detector.

The detector shall operate with the loop ranging in inductance from 30 to 1000 microhenries. Maximum loop lead-in shall be 1000 feet (805m).

Signal output isolation shall be provided by two built-in output relays which shall interface the detector with associated equipment.

Output contact #1 shall be an 8amp form C presence contact with a minimum of one hour holding time. Output contact #2 shall be an 8 amp form C presence contact switchable to ON or OFF loop activation.

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## B. TECHNICAL DATA

Loop Inductance	30-1000 microhenries
Holding Time	1 hour
Output	pulse on entry or exit, NO and NC presence contacts (Form C contact)
Loop Size	up to 10' X 100'
Maximum Lead-in	1000'
Operation Settings	ten position DIP switch for setting loop frequency, sensitivity and output pulse
Size	2.7" H X 4.6" D X 1.5" W (59mm X 116mm X 38mm)
Power	120VAC 50/60Hz .5A operation (24VDC and 220VAC optional)
Operating temperature	-50 deg F to 185 deg F (-45 deg C to 85 deg C)
Weight	10.4 oz. (295g)