



TD 130

SINGLE CHANNEL DETECTOR

The innovative TD136 series of single channel inductive loop vehicle detectors are used to detect vehicle presence by means of an inductive loop buried under the road and have all the features and benefits found on much larger modules. No longer is it necessary to make compromises when selecting a detector for Traffic control, counting or traffic analysis - these robust microprocessor-based units are suitable for them all. Available in standard & custom variations these detectors can cater to your every system requirement.

APPLICATIONS

- Traffic Control Applications
- Tolling Equipment
- Traffic Analysis



SPECIFIC FEATURES

Diagnostic Capabilities	Comprehensive diagnostics capabilities allow for accurate diagnosis of loop and installation problems. This is made possible via Nortech's DU100.
Selectable Presence Time	The output of the presence relay can be selected to maintain an output for an extension period, or for defined presence output times.
Loop Isolation Protection	The loop is isolated and provides protection against lightning and transient damage and allows for operation with single point to ground sensor loops. Added filtering reduces interference from external noise.
Loop Frequency Indication	The detector indicates it's operating frequency on start-up by flashing the operating frequency count on the green channel LED, with each flash representing 10kHz. This enables an installer to minimize interference between adjacent loops / detectors by changing the frequency settings.
Environmental Analyser	Continuous monitoring of external parameters ensures reliable product performance and operations under all environmental and power supply conditions.
Delay on Detect	Provides a turn-on delay, thus allowing selective detection which is often useful for screening out unwanted inputs.
Fault Outputs	A visual and relay based fault output provides immediate notice regarding a detector fault, resulting in less down-time and easier fault diagnostics.



TECHNICAL DATA

Self Tuning Range:	20 – 1500 μ H
Sensitivity	Four step adjustable on faceplate: Ranging from 0.02% L/L to 0.5% L/L
Frequency	Four step adjustable on faceplate : 12-85kHz (Frequency determined by loop geometry)
Output Configuration	2 output relays, with one dedicated presence relay and one dedicated fault relay: Relay 1 = Presence output (Fail-Safe) Relay 2 = Fault output (Fail-Safe)
Presence Time	Four step adjustable on faceplate: - 1 second, 4 minutes, 40 minutes, no fixed time out (No fixed timeout dependant on inductance change. Approximately 1 hour for 3% L/L)
Delay Time	Four step adjustable on faceplate: - 0, 10, 20, 30 seconds
Indications	The following faceplate indications are provided: Red LED – Power and Diagnostic Green LED – Channel indicator
Protection	Loop isolation transformer, zener diode clamping on loop inputs and gas discharge tube protection.
Power Requirements	120V AC \pm 10% OR 230V AC \pm 10% OR 12-24V AC/DC \pm 10%
Output Relays (Rating and Type)	Presence Relay - 5A @ 230V AC Change-over contact (Fail-Safe) Fault Relay - 5A @ 230V AC Change-over contact (Fail-Safe)
Operating Temp Range	-40°C to +70°C (Circuit sealed against condensation)
Housing Material	ABS blend
Dimensions	78mm (high) 41mm (wide) x 80mm (deep)
Mounting Position	Shelf or DIN-rail socket
Connector	11-pin submagnal (JEDEC B11-88)

ORDERING INFORMATION

305FT0001_01	TD136 Enhanced English 230V AC
305FT0004_01	TD136 Enhanced English 120V AC
305FT0010_01	TD136 NORTECH English 12-24V AC/DC