

4-Channel Boxed Traffic Detector

The TD450 series of 4 channel microprocessor based boxed traffic detectors are packaged according to industry standards and are ideal for use in traffic control and toll equipment vehicle detection applications.

The TD250 whilst providing separate vehicle presence outputs may also be configured to operate in various modes such as Direction, Speed and Headway, as well as delay/extend mode. An output can be provided when pre-set speed or headway threshold has been exceeded and can be use to control third party devices. The LS version has a serial link for communication to a host device

Applications

- Direction Logic (AB logic)
- Speed Logic (Optional: unidirectional)
- Headway Logic
- Queue detection
- Traffic counting
- Toll equipment



Features of the TD450

TD450L	Direction Logic Speed Logic – output based on a preset speed Headway Logic – output based on a time less than the preset
TD450LS	Direction Logic Speed Logic – output based on a preset speed Headway Logic – output based on a time less than the preset Serial communication
Diagnostics	Comprehensive diagnostics are available in conjunction with the DU100

The Idris technology is protected by one or more of the following patents:
EP0879457, USA 6345228, 6337640 and 6483443.
Further patents pending.



4-Channel Boxed Traffic Detector

Self Tuning Range:	15 - 2000 μ H
Sensitivity:	Four step adjustable on faceplate: High 0.02% Δ L/L Med-High 0.05% Δ L/L Med-Low 0.1% Δ L/L Low 0.5% Δ L/L
Frequency:	Four step selectable on PCB: High, Medium-High, Medium-Low and Low Frequency dependent on loop per channel
Presence Time:	Four step adjustable on faceplate: 1 seconds 4 minutes 40 minutes Infinity – no fixed time-out
Pulse Output:	150mS <u>OR</u> 500mS
Static Response Times:	Turn on 30mS \pm 5mS Turn off 40mS
Indications:	1 x Run indicator (Red) 1 x Channel status per channel On = Detect Flashing = Fault Off = Undetect
Protection:	Loop isolation transformers, zener diode clamping on loop inputs and gas discharge tube protection.
Power Requirements:	120V AC \pm 10% (48 to 62Hz), <u>OR</u> 230V AC \pm 10% (48 to 62Hz), <u>OR</u> 12V to 24V AC/DC
Detect outputs:	Sealed relays rated at 1A @ 220V AC Single change-over contact per channel
Operating Temperature Range:	-40 °C to + 70 °C (Circuit conformal coated)
Housing Material:	ABS blend
Dimensions:	131mm (deep) x 113mm (high) x 57mm (wide)
Connector:	2 x 11-pin submagnal type (86CP11) 1 x 3-pin VDE plug for AC mains versions

Ordering Information

879FT0035	TD451L, 120v AC
879FT0036	TD454L, 12V to 24V DC
879FT0043	TD452L, 230v AC