

GD200 – Dual Channel Gate Detector

The GD200 is a dual channel microprocessor based detector designed specifically for traffic control applications. The GD200 has been designed using the most up-to-date technology in order to meet the requirements of a vast number of traffic applications in terms of operating conditions and functional options available to the user. The primary function of the detector is to detect vehicle presence by means of an inductance change caused by the vehicle passing over a wire loop buried under the road surface.

Applications

- Parking barrier control.
- Vehicle access control.
- Motorised gates and doors.
- Industrial control systems.



Specific Features

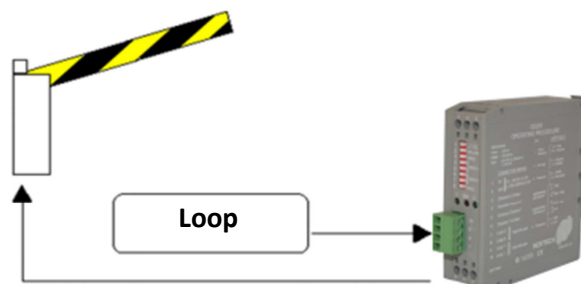
- **Compact Size:** This compact industrial housing combines all of the industry requirements regarding features and functionality and allows this detector to be incorporated into any new or existing vehicle detection system.
- **Selectable Fail-Safe / Fail-Secure:** Allows a selectable output for either Fail-Safe or Fail-Secure operation.
- **Loop Isolation Protection:** The loop isolation transformer provides protection against lightning and transient damage and allows for operation with single point to ground sensor loops.
- **Loop Frequency Indication:** The possibility of cross-talk (interference) between adjacent loops/ detectors can be determined by a visual display, and eliminated by changing the frequency settings.
- **Automatic Sensitivity Boost (ASB):** Facilitates the reliable detection of all vehicle combinations and high-bed vehicles by boosting the sensitivity to maximum after detection of a vehicle.

Technical Data

Self-tuning range:	20 μ H to 1500 μ H
Sensitivity:	Four step adjustable on faceplate High – 0.02% Δ L/L Med- Low – 0.1% Δ L/L Med-High – 0.05% Δ L/L Low – 0.5% Δ L/L
Frequency:	Two step adjustable on faceplate 12 – 80 kHz (Frequency determined by loop geometry)
Presence Relay:	Internal Link Selectable: Permanent presence or Limited presence
Automatic Sensitivity Boost:	Enabled (Optional – Disabled)
Pulse Output Duration:	250ms (Optional – 150ms)
Presence Time:	Limited 1 hour for 3% Δ L/L or Permanent presence Option
Operating Modes:	Mode Selector on faceplate: 1) Fail Safe / Fail Secure
Indications:	Red LED – POWER indication. Green LED – Channel Indicator Green LED – Tuning: On steady Green LED – Undetect: OFF Green LED – Detect: ON Green LED – Fault: On with short off periods
Mounting:	Din-Rail Mount
Detect Outputs:	2 x Relays rated – 0.5A @ 30v AC/DC Internal Link Selectable N/O or N/C contacts – (Default N/O)
Protection:	Loop isolation transformer, zener diode clamping on loop input, gas discharge
Power:	24 V \pm 10% (AC/DC) Requirements -1.5VA max.

Typical Application

Barrier System



Ordering Information

Part Number	Description
202FT0001	DUAL CHANNEL 24V DC/AC ENGLISH

Please enquire for customer specific and other language variants