



FEATURES

Compact Size:

The compact aesthetically pleasing housing combined with all the industry requirements regarding features and functionality allows this detector to be incorporated into any new or existing vehicle detection system.

Selectable Permanent Presence:

Using this feature, the output of the presence relay will be maintained for an indefinite period, thereby eliminating premature barrier/gate/door closure and possible vehicle damage.

Loop Frequency Adjustment:

The possibility of crosstalk (interference) between adjacent loops / detectors can be eliminated using the alternative frequency settings.

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.

Dual Channel Inductive Loop Vehicle Detector

GD200

This innovative GD200 dual channel inductive loop vehicle detector – is a compact detector customised for the gate & door market.

The GD200 is designed for DIN RAIL mounting.

The Nortech GD200 is a cost effective choice when selecting a detector for parking boom gate control or motorised door and gate applications.

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.

PART NUMBER 200FT0200 GD200 Detector

24V AC/DC

Selectable direction logic option:

Convenient faceplate selection of vehicle direction logic mode that utilises both loops to provide outputs dependant on vehicle direction.

Fail Safe / Fail Secure:

The failure mode of the detector is configurable from internal links. In safety applications, a fault will produce a detection output, while for security applications it will not.

Pulse / Presence option:

The Ch2 relay operates in either presence or pulse mode depending on the faceplate switch selection.

APPLICATIONS

- Parking boom gate control
- Vehicle access control
- Motorised gates and doors
- Industrial control systems

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TECHNICAL DETAILS

20-1500µH

High: 0.02% ΔL/L

Low: 0.5% ΔL/L

by loop geometry)

2 output relays:

Approx. 150ms Factory option 250ms

Presence time: 1 hour for $3\% \Delta L/L$ and permanent

1. Direction logic 2. Presence / pulse

are provided: Red LED - power;

mode

logic mode

Standard is failsafe

internal link selection)

Output Relays: 0.5A @ 30V AC/DC

24V AC/DC ± 10%

Mode selector on faceplate:

The following face-plate indications

2. Alternating flash after tune in AB

Loop isolation transformer, zener

Option fail secure (by means of

diode clamping on loop inputs and gas discharge tube protection

Green LED - channel indicator 1. Tuning - on steady in Presence

Medium High: 0.05% ΔL/L Medium Low: 0.1% ΔL/L

Four step adjustable on face-plate

Two step adjustable on face plate, 12-80kHz (frequency determined

Relay 1 = Ch 1 - Presence output

Relay 2 = Ch 2 - Presence output / switch selectable pulse output

Self tuning

Sensitivity:

Frequency:

Configuration

Pulse output

presence option

duration:

Operating

Indications:

Protection:

requirements:

Power

Fail safe:

modes:

Output

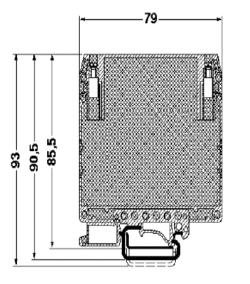
range:

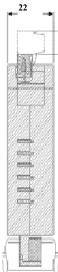
GD200

Operating temperature range: -40°C to +80°C

Mechanical detail:

Material: Dimensions:	High heat ABS blend 86mm (L), 79mm (W), 22mm (H)
Mounting:	DIN-rail
Connectors:	6 Integral screw terminals plus pluggable Loop inputs





WIRING DETAILS

1.5VA max	pir	l	designation
	1	0V DC or Neutral AC	
0.5A @ 30V AC/DC	2	+24V AC/DC	
Ch1 Presence N.O. contacts (N/C	3	Channel 2	N/O Contact
optional) Ch2 Presence N.O. contacts or Pulse output	4	Channel 2	Common Contact
	5	Channel 1	Common Contact
	6	Channel 1	N/O Contact
Standard is failsafe	7		. Twiet this

- Loop 2 1
- 8 Loop 2

9

- Loop 1
- 10 Loop 1
- Twist this pair
- Twist this pair

PARKING

GD200