

PD230 DUAL CHANNEL

VEHICLE DETECTOR - DATA SHEET

The PD230 is a series of dual channel inductive loop vehicle detectors in a popular miniature housing for DIN rail and relay base mounting. These miniature dual channel units have all the features of the larger boxed units but at less than half the size. Miniature single and dual channel detectors from Nortech make it unnecessary to compromise on features when selecting a detector for parking control and motorised door or 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.

Compact Size:

Miniature housing that saves space in newer compact equipment designs. The light-weight design makes it possible to plug the unit directly into a DIN rail compatible socket.

Flexibility:

Front panel mounted DIL switch provides many user selected functions without the need to access the internal circuitry. Channel multiplex circuitry eliminates crosstalk interference between the two loops connected to this detector regardless of the proximity.

Direction Logic capability:

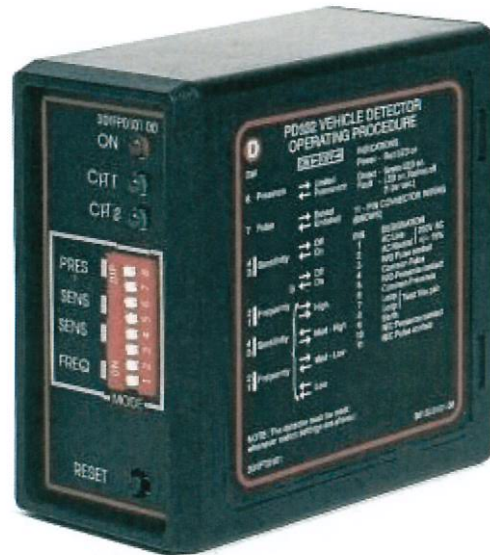
Internal links optionally modify the outputs to indicate the direction of travel of a vehicle. Outputs are provided for direction A to B and B to A. This option is used for entry/ exit counting, free exit and similar applications.

Selectable Permanent Presence:

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

Fault Monitor:

A fault indication is provided in the event of the loop input becoming faulty, or alternatively if the loop is out of the tuning range. This feature will help in localising the fault in the event of a maintenance call out.



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.

Diagnostic Capabilities:

The software of this unit allows comprehensive diagnostics capabilities in conjunction with separate DU100 hand-held diagnostics readout. Advanced diagnostics features are covered by International patents.

Applications

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

TECHNICAL DATA

Self Tuning. Range: 20-1000ΩH. Extended Sensitivity: Four step selectable per channel

High - 0.01% L/L, Med -High 0.05% L/L, Med - Low 0.1% L/L, Low - 0.5% L/L

Frequency: Four steps adjustable on faceplate, High, Med-High, Med-Low, Low

Output Configuration: 1 output relay per channel, (fail safe in Presence mode) - Fail secure (optional model), Pulse Output, Duration: Approx. 150ms (option 250ms)

Presence Time: Selectable - limited or permanent. Limited-presence 1 hour for 3% L/L

Operating Modes:

1. Presence CH 1 & CH2, 2. Presence CH1 & Pulse CH2, 3. Pulse CH 1 & CH 2,
2. 4. Direction logic A to B (CH1) & B to A (CH2)

Power : 230V AC ± 15% 48-60Hz (PD232), 12-24V AC/DC ± 15% (PD234), 1.5VA max@ 230V

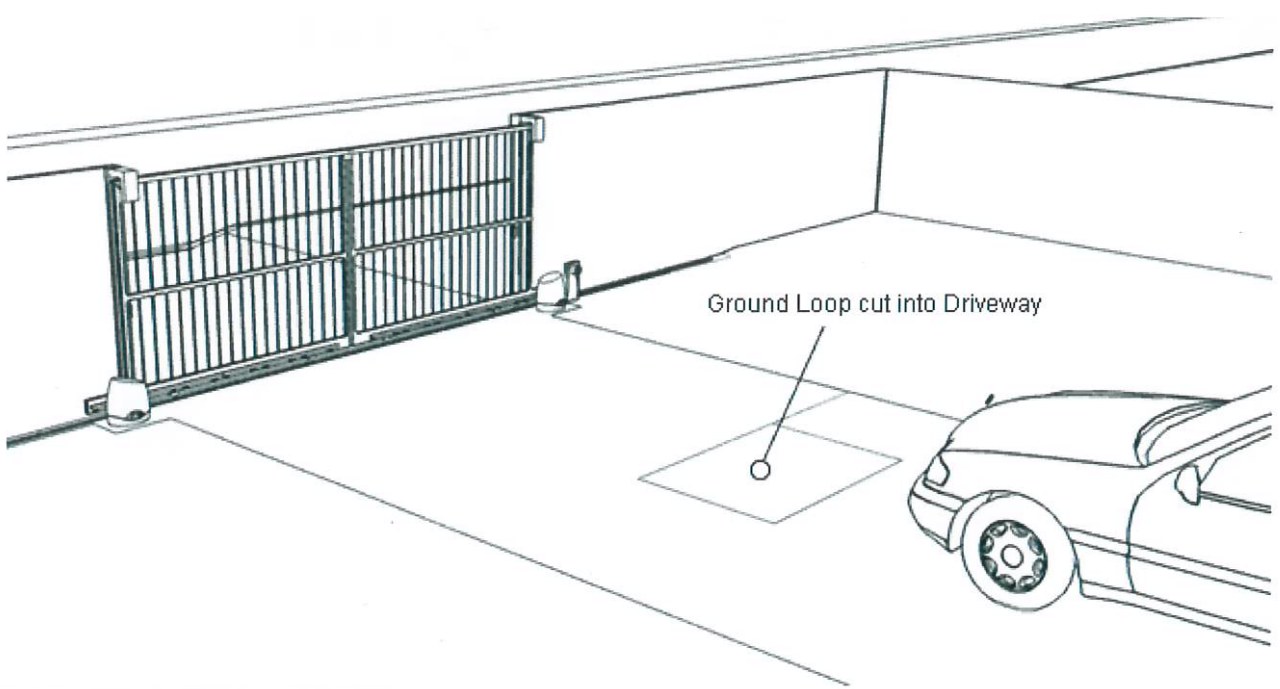
Operating: -40°C to +80°C temperature range. Output Contact rating 5A@230VAC

Relays: N / O contacts per channel, Fail safe operation

Mechanical detail:

Material: High heat ABS blend, ' Dimensions: 76 x 40 x 78mm, Mounting: Shelf or DIN-rail socket
Connector: Single rear mount 11-pin submgnal,





24/7 EMERGENCY CALLS (08) 9244 8899
EC002303

