



PD230 DUAL CHANNEL DETECTOR

Accurate, reliable and cost effective, Nortech Parking Detectors are the obvious choice. With low maintenance costs, our detectors often last beyond the lifetime of the site.

The PD230 Series offers a robust detector that can be configured to suit a wide variety of possible parking detector functions. The flexible output options mean that this detector will just work in almost any required application.

APPLICATIONS

- Parking barrier control
- Safety Loop
- Accurate vehicle counting
- Arming control
- Motorised gates and doors
- Industrial control systems

SPECIFIC FEATURES

AB Logic

Internal selection of the AB logic option will allow the configuration of the detector in direction logic mode. In this mode, the output relays give separate outputs depending on vehicle direction. These AB logic mode is configurable and can provide either pulse or presence outputs.

Visual 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 operating range. This feature provides assistance in localising the fault in the event of a maintenance callout.

Diagnostics	Comprehensive diagnostics capabilities allow for accurate diagnosis of loop and installation problems. This is made possible via Nortech's Diagnostic Unit.
Permanent Presence	The output of the presence relay can be selected to maintain an output for an infinite period, eliminating premature barrier / gate / door closure.detection of a vehicle.
ASB	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.
PowerFail Memory	In the event of a power failure, the PD230 detector will retain the presence of the vehicle when power is restored. This is most useful in applications where damage to vehicles could occur. (E.g. Rising Bollards) (Non Standard Feature – Please Enquire Directly)

TECHNICAL DATA

Self-tuning Range	20μH to 1000μH
Sensitivity	4 step adjustable on the front panel: Ranging from 0.02% ΔL/L to 0.5% ΔL/L Automatic Sensitivity Boost (ASB) is switch selectable
Frequency	4 step adjustable on the front panel 24 – 80 kHz (Frequency is determined by loop geometry)
AB Logic	Selectable presence or pulse output, A to B (CH1) & B to A (CH2), for forward and reverse vehicle directions
Presence Time	Permanent or limited selectable
Drift Compensation	Incorporated method of tracking changes caused by environmental conditions at a rate approximating 1% ΔL/L per minute
Anti-locking	Incorporated algorithm accommodates the influence of positive inductance changes to avoid detector lock-up
Relay Outputs	1 dedicated output per channel, each channel can be configured as a presence or pulse output, with a pulse output duration of 150ms (250ms pulse duration available on request)

Relay Mode

Each channel, when selected in presence mode, is configured to operate as Fail Safe (The option of Fail Secure presence outputs is available on request)

PowerFail Memory

10 minute memory retention of vehicles in the event of a power failure

Protection

Loop isolation transformer, zener diode clamping, gas discharge tubes

Power

12-24V $\pm 10\%$ (AC/DC)
120V $\pm 10\%$ AC
230V $\pm 10\%$ AC

Connector

11 pin submagnal connector (JEDEC B11-88)

Operating Temperature

-40°C to +70°C

ORDERING INFORMATION

302FT0014_01 1

PD231 Dual Channel 120V

302FT0026_01

PD232 Dual Channel 230V

302FT0008_01

PD234D Dual Channel 12-24V AC/DC