NORTECH PARKING

302DS0014_00

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 mode.
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 Diagnostics 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.
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.

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).
Protection	Loop isolation transformer, zener diode clamping, gas discharge tubes.
Power	12-24$V_{AC/DC}$ ±10%. 120V_{AC} ±10%. 230V_{AC} ±10%.
Connector	11 pin submagnal connector (JEDEC B11-88).
Operating Temperature	-40˚C to +70˚C.

ORDERING INFORMATION

302FT0014	PD231 Dual Channel $120V_{AC}$
302FT0026	PD232 Dual Channel $230V_{AC}$
302FT0008	PD234D Dual Channel $12\text{-}24V_{AC/DC}$