NORTECH PARKING

301DS0119_00

PD130

SINGLE 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 PD130 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.
- Vehicle access control.
- Safety loop.
- Arming control.
- Motorised gates and doors.
- Industrial control systems.

SPECIFIC FEATURES

Loop Frequency Indication

The PD130, upon tuning to the inductive loop will flash the channel operating frequency count on the green channel LED with each flash representing 10kHz. This is useful in diagnosing interference between adjacent loops/ detectors and eliminated by changing the frequency settings.

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.
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.
Loop Isolation Protection	The loop is isolated and provides protection against lightning and transient damage and allows for operation with single point to ground sensor loops. Additional filtering reduces interference from external noise.

TECHNICAL DATA

Self-Tuning Range	20µH to 1500µH.
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: 12 – 85 kHz (Frequency is determined by loop geometry).
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 presence relay, and 1 pulse relay that can be configured to pulse on detect or pulse on undetect. The pulse duration is fixed at 150ms. (Optional pulse duration of 250ms available on request).
Relay Mode	The Presence relay is configured to operate in a Fail Safe mode. (Optional Fail Secure relay mode available on request).
Detect Filter	A 2 second turn-on delay to ensure valid detection.
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

301FT0119_01	PD131 Single Channel 120V_{AC}
301FT0101_01	PD132D Single Channel 230V_{AC}
301FT0122_01	PD134D Single Channel 12-24$V_{AC/DC}$

Please enquire for customer specific and other language variants.