NORTECH PARKING

307DS0103_00



PD170

SINGLE CHANNEL DETECTOR

The 7 Series, is designed to meet the markets' need for a more cost effective, 'plug and play' solution! Our legendary Automatic Frequency Selection (AFS) results in less set up time, simplifying the installation of complex multi-lane access control sites. AFS also ensures trouble free installation and improved sensitivity facilitating the reliable detection of vehicles in all conditions.

Unlimited PowerFail Memory and a sophisticated environmental tracking algorithm ensures that whether your site has a simple or complex configuration, these detectors just work, giving you peace of mind. Consuming less power and with a 5 year manufacturer's warranty, the 7 Series offers a low cost of ownership and is available with Din-Rail housing and relay base mounting. It is available in single and dual channel.

APPLICATIONS

- Parking barrier control.
- Safety Loop.
- Arming control.
- Motorised gates and doors.
- Industrial control systems.

SPECIFIC FEATURES

PowerFail Memory

In the event of a power failure, the PD170 will retain the presence of the vehicle when power is restored. The PD170 is also able to determine if a vehicle has driven onto the loop while the power is off and detect it immediately when the power returns. This is most useful in applications where damage to vehicles could occur (E.g. Rising Bollards). The PowerFail memory is infinite.

AFS	Automatic Frequency Selection (AFS) automatically examines the detector environment and sets the optimal operating frequency to ensure minimal interference and maximum reliability, significantly decreasing installation time. Frequency can also be manually set via the faceplate.
Diagnostics	Comprehensive diagnostics capabilities allow for accurate diagnosis of loop and installation problems. This is made possible via Nortech's DU100 and DU700.
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 1500µH.
Sensitivity	4 step adjustable on the front panel: - Ranging from 0.01% ΔL/L to 0.1% ΔL/L. - Automatic Sensitivity Boost (ASB) is switch selectable.
Frequency	Automatic Frequency Selection (AFS) or select from 4 frequency bands 18-110kHz (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 selectable between either 150ms or 250ms.
Relay Mode	The Presence relay can be configured to operate as Fail Safe or Fail Secure.
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) Also available in Din-Rail mount unit with 2 x 6 way connectors.
Operating Temperature	-40˚C to +80˚C.

ORDERING INFORMATION

307FT0103	PD171 Single Channel 120V_{AC}
307FT0101	PD172 Single Channel 230V_{AC}
307FT0102	PD174 Single Channel 12-24$V_{AC/DC}$