



## SPECIFIC FEATURES

<b>Slimline Form Factor</b>	The PD180 is the slimmest of the Nortech boxed Parking detectors, facilitating installation in even the most physically constrained environments.
<b>AFS</b>	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 wireless configuration channel.
<b>PowerFail Memory</b>	In the event of a power failure, the PD180 will retain the presence of the vehicle when power is restored. The PD180 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.
<b>Diagnostics</b>	Comprehensive, wireless diagnostics allow for accurate diagnosis of loop and installation problems as well as configuration adjustments to eliminate issues. This is made possible via Nortech's DU800 and Integr8 App.

## TECHNICAL DATA

<b>Self-tuning Range</b>	20 $\mu$ H to 1000 $\mu$ H
<b>Sensitivity</b>	Ranging from 0.01% $\Delta$ L/L to 5% $\Delta$ L/L Automatic Sensitivity Boost (ASB) is selectable
<b>Frequency</b>	Automatic Frequency Selection (AFS) or select from 6 frequency bands 30 - 150kHz (Frequency is determined by loop geometry)
<b>Automatic Frequency Selection</b>	Automatically evaluates all frequency bands on startup and selects the most suitable in the given environment based on signal strength and noise
<b>Presence Time</b>	Permanent or Limited selectable, with optional timeout on both
<b>Drift Compensation</b>	Incorporated method of tracking changes caused by environmental conditions at a rate approximating 1% $\Delta$ L/L per minute

## Anti-locking

Incorporated algorithm accommodates the influence of positive inductance changes to avoid detector lock-up

## Relay Outputs

2 programmable relays with NO, NC and COM connections exposed. Options for presence or pulse, pulse on detect, pulse on undetect or fault and each relay has configurable Filter, Delay and Extend options

## Relay Mode

Relays can be configured to operate as Fail Safe or Fail Secure with the ability to actuate on a Fault condition in Fail Safe mode

## Opto Outputs

3 Opto outputs provided as an alternative to relays. Each is individually configurable

## Protection

Polarity protection, loop isolation transformer, zener diode clamping, gas discharge tubes, 50 - 60Hz Noise Rejection

## Power

12 - 24V  $\pm 10\%$  AC/DC  
90V - 230V AC  $\pm 10\%$  50/60Hz

## Connections

DIN Rail mount  
3 x 3 Way Connectors and 1 x 4 Way connector

## Operating Temperature

-40°C to +80°C

## Dimensions

Maximum outer dimensions are 94mm x 94mm x 22,5mm

## ORDERING INFORMATION

**308FT0101**

PD182 Single Channel 90 - 230V AC

**308FT0102**

PD184 Single Channel 12 - 24V AC/DC

**308FT0103**

PD182 Single Channel 90 - 230V AC Opto Outputs

**308FT0104**

PD184 Single Channel 12 - 24V AC/DC Opto Outputs