



**NORTECH**  
PARKING



## 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

## **PowerFail Memory**

In the event of a power failure, the PD130 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**

20 $\mu$ H to 1500 $\mu$ H

### **Sensitivity**

4 step adjustable on the front panel:  
Ranging from 0.02%  $\Delta$ L/L to 0.5%  $\Delta$ L/L  
Automatic Sensitivity Boost (ASB) is switch selectable  
1x bi-colour LED (Red and Green)

### **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%  $\Delta$ L/L per minute

### **Anti-locking**

Incorporated algorithm accommodates the influence of positive inductance changes to avoid

### **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**

A2 second turn-on delay to ensure valid detection

**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

Please enquire for customer specific and other language variants

<b>301FT0119_01</b>	PD131 Single Channel 120V
<b>301FT0101_01</b>	PD132D Single Channel 230V
<b>301FT0122_01</b>	PD134D Single Channel 12-24V AC/DC