

Single Channel Inductive Loop Vehicle Detector

PD162 / PD164



The prestigious PD160 range provides a totally customizable inductive loop solution primarily suited to complex multilane access control.

The ease of installation of this product is not only cost effective but a pleasure to operate when determining the optimal parameters with the onboard diagnostics. Nortech is proud to introduce the ultimate parking detector, where sophistication is simplified.

PART NUMBERS

304FT1002	PD162D Nortech	240 VAC
304FT1004	PD164D Nortech	12-24V AC/DC

FEATURES

Automatic Frequency selection:

AFS: The Automatic Frequency Selection allows the best frequency setting to be automatically selected which minimises interference and maximise the loop signal strength.

Diagnostic Capabilities:

Comprehensive built in diagnostics capabilities allow for accurate diagnosis of loop and installation problems. All the relevant information is displayed on the units LCD display.

The following parameters can be diagnosed:
Frequency, Inductance Change, Noise / Interference and Signal Strength.

Channel counting information is also available.

Completely configurable:

The LCD menu provides customizable functionality in the choice of output variations, frequency and sensitivity settings. Any change in settings is saved in the event of a loss of power; however factory settings can be restored through the menu.

Selectable Permanent Presence:

Using this feature, the output of the presence relay will be maintained for an indefinite period, thereby eliminating premature barrier/gate/door closure and possible vehicle damage.

Loop Frequency Indication:

The possibility of crosstalk (interference) between adjacent loops/detectors can be determined using the LCD display, and eliminated by changing the frequency settings

Automatic Sensitivity Boost (ASB):

This feature facilitates the reliable detection of large truck-trailer combinations and high-bed vehicles by automatically boosting the sensitivity to maximum on detection of a vehicle.

Detect Filter:

Provides an adjustable turn-on delay, thus allowing selective detection which is often useful for screening out unwanted inputs.

Powerfail Memory:

In the event of a power failure, the PD160 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).

APPLICATIONS

- Parking boom gate control
- Vehicle access control
- Motorised gates and doors
- Industrial control systems

TECHNICAL DETAILS

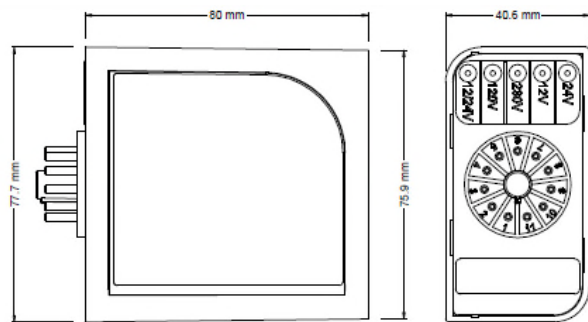
Self tuning range:	20-1500 μ H
Sensitivity:	Fifteen step adjustable on the LCD menu High: 0.01% Δ L/L to 5% Δ L/L
Frequency:	Eight step adjustable on LCD menu, 12- 80kHz (frequency determined by switch setting and loop geometry)
Filter (Delay)	Eight step selectable output filter: Ranging from 100m.s. to 10 secs.
Output Configuration	2 output relays: Relay 1 = Presence output Relay 2 = Pulse output
Pulse output configuration:	Pulse on arrival or departure Programmable pulse duration
Presence time:	1 hour for 1% Δ L/L and permanent presence option
Power Fail Memory:	Selectable – infinite (refer to user manual)
Indications:	All diagnostic information is accessible through the LCD menu Additional LED's provided for power and channel status display
Protection:	Loop isolation transformer, zener diode clamping on loop inputs and gas discharge tube protection
Power requirements:	240V AC \pm 15% 48-60Hz (PD162) 12-24V AC/DC \pm 15% (PD164) 1.5VA max @ 230V
Output Relays:	1A @ 230V AC Change-over contacts (fail-safe)

PD162 / PD164

Operating temperature range: -40°C to +70°C

Mechanical detail:

Material:	High heat ABS blend
Dimensions:	78(H) x 41(W) x 80(L)mm
Mounting:	Shelf or DIN-rail socket
Connector:	Single rear mount 11-pin submagnal (JEDEC No. B11-88)
Options:	1 metre flying lead 11 pin screw terminal Base



WIRING DETAILS

pin	designation
1	Live 230V AC 50/60 Hz OR
2	Neutral 12 - 24V AC/DC
3	Pulse Relay Normally Open contact
4	Pulse Relay Common contact
5	Presence Relay Normally Open contact
6	Presence Relay Common contact
7	Loop Twist this
8	Loop pair
9	Earth
10	Presence Relay Normally Closed contact
11	Pulse Relay Normally Closed contact

OPTIONAL ITEMS

301FT0041	1 metre flying lead
CTR 119090	11 pin Relay Base

