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PARKING

PD160 Single Channel Detector

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.

APPLICATIONS

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



SPECIFIC FEATURES

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 LCD menu.
Diagnostics	Comprehensive built in diagnostics allow for accurate diagnosis of loop and installation problems. All relevant information is displayed on the LCD. The following parameters can be diagnosed: Frequency, Inductance Change, Noise / Interference and Signal Strength. Channel counting information is also available.
Customizable	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.
Permanent Presence	The output of the presence relay can be selected to maintain an output for an indefinite 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.
Power-fail 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). PowerFail memory is indefinite.

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TECHNICAL DATA

Self-tuning Range	20 μ H to 1500 μ H
Sensitivity	Fifteen step adjustable on the LCD: Ranging from 0.01% Δ L/L to 5% Δ L/L ASB (Automatic Sensitivity Boost) selectable
Frequency	Eight step adjustable on LCD menu 12 – 80 kHz (Frequency determined by loop geometry)
Output Configuration	2 output relays (3rd output optional) Default Setting: Relay 1 – Presence Completely customizable outputs for: Each relay can be configured as Fail Safe or Fail Secure Rated: 1A @ 70 VAC Relay 2 – Pulse on detect Presence on detect OR fault Pulse on detect OR un-detect
Filter (Delay)	Eight step selectable output filter for eliminating false detects Ranging from 100ms to 10seconds. Default setting is OFF
Pulse Output Duration	Eight step selectable on the LCD menu Ranging from 50ms to 2seconds. Default set to 150ms
Presence Time	Eight step selectable via the Menu 30 seconds to 60 minutes
Presence Mode	Permanent or Limited to approximately 1 hour for a 1% Δ L/L
PowerFail Memory	Infinite memory retention in the event of a power failure
Indications	All diagnostic information accessible through the LCD Menu Additional LED's provided for power and channel status display
Protection	Loop isolation transformer, zener diode clamping, gas discharge tube
Power	12 to 24 V \pm 10% (AC/DC) 120V \pm 10% AC 230V \pm 10% AC
Connector	11 pin submagnal connector (JEDEC B11-88)
Operating Temperature	-30°C to +70°C
Dimensions	80mm (deep) x 75.9mm (high) x 40.6mm

ORDERING INFORMATION

304FT1001	PD161 Single Channel 120V DC
304FT1002	PD162 Single Channel 230V DC
304FT1004	PD164 Single Channel 12-24V AC/DC

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