

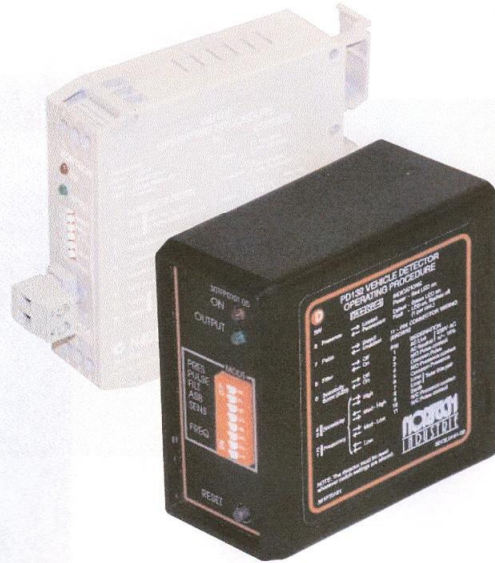
## Parking Management Solutions

# SINGLE CHANNEL VEHICLE DETECTORS

ONE OF THE MOST CRITICAL COMPONENTS OF THE WHOLE VEHICLE ACCESS CONTROL SYSTEM IS THE INDUCTIVE LOOP DETECTOR.

SINGLE CHANNEL LOOP DETECTORS ARE USED TO IDENTIFY THE PRESENCE OF VEHICLES BY MEANS OF AN INDUCTIVE LOOP BURIED UNDER THE ROAD. THESE "ONE CHIP" MICROPROCESSOR-BASED UNITS BENEFIT FROM A DETECT FILTER AND FREQUENCY INDICATOR AND ARE SUITABLE FOR PARKING CONTROL AND MOTORISED DOOR OR GATE APPLICATIONS

ALL DETECTORS ARE CE TESTED AND APPROVED. A COMPACT DETECTOR DIAGNOSTIC UNIT IS AVAILABLE FOR EXTRACTING DATA FROM NEW AND EXISTING SITES.

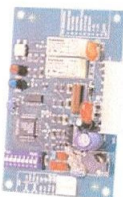


## INDUCTIVE LOOP TECHNOLOGY

### SINGLE CHANNEL VEHICLE DETECTORS



DU100



PD139

#### Features

##### PD130 - Vehicle Detector

- Compact size
- Diagnostic capabilities
- Selectable permanent presence
- Loop isolation protection
- Loop frequency indication
- Automatic Sensitivity Boost (ASB)
- Detect filter

##### PD139 - Card Based Vehicle Detector

- Compact size
- Diagnostic capabilities
- Selectable permanent presence
- Loop isolation protection
- Loop frequency indication
- Automatic Sensitivity Boost (ASB)
- Selectable relay output configuration
- Loop fault monitor

##### GD100 - Vehicle Detector

- Compact size
- Selectable permanent presence
- Selectable presence output (Fail Safe / Fail Secure)
- Loop isolation protection
- Visual output LED (fault monitor)

##### DU100 - Detector Diagnostics Unit

- Compact, self-contained test
- Exclusive optical readout
- No service disruption
- Loop diagnosis
- Historical data available
- Unique crosstalk monitor

#### Applications

- Parking barrier control
- Rising bollards
- Motorised gates and doors
- Industrial control systems
- Rising kerbs
- High-speed rapid roll industrial doors



**NORTECH**  
CONTROL SYSTEMS

## Parking Management Solutions

# TECHNICAL SPECIFICATIONS

### PD130

#### Face-plate LED Indicators:

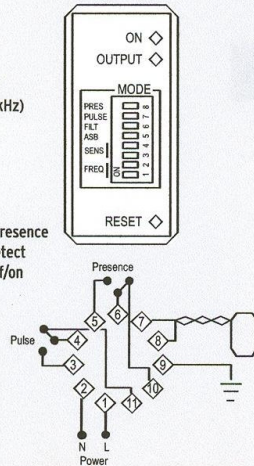
Red - power,

Green - channel indicator:

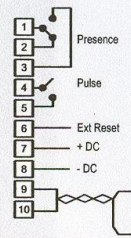
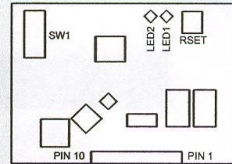
1. Tuning - on steady followed by flashing frequency count (x 10kHz)
2. Undetect - off
3. Detect - on steady
4. Fault - on with short off

#### Operating Modes:

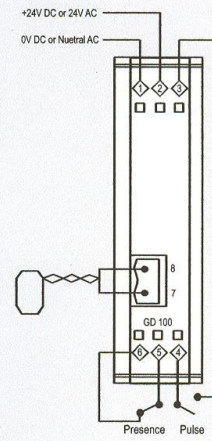
1. Limited presence/permanent presence
2. Pulse on detect/pulse on undetect
3. Automatic sensitivity boost off/on
4. Filter off/on (2 second delay)



### PD139



### GD100



#### Technical Specifications

##### PD130

Self tuning range:	20-1500mH
Sensitivity:	4 step adjustable: High: 0.02% DL/L Medium High: 0.05% D L/L Medium Low: 0.1% D L/L Low: 0.5% D L/L
Frequency:	4 step adjustable, 12-80kHz (frequency determined by loop geometry)
Output configuration:	2 output relays: Relay 1 = presence output Relay 2 = pulse output
Pulse output duration:	Approx. 150ms, factory option 250ms
Presence time:	1 hour for 3% D L/L, permanent presence option
Protection:	Loop isolation transformer, zener diode clamping on loop inputs and gas discharge tube protection
Power requirements:	120V AC +/- 15% 48-60Hz (PD131) 230V AC +/- 15% 48-60Hz (PD132) 12-24V AC/DC +/- 15% (PD134) Requirement: 1.5VA max @ 230V
Output relays: (rating and type)	Presence relay: 5A @ 230V AC change-over contacts (fail-safe) Pulse relay: 5A @ 230V AC change-over contacts (non-fail-safe)
Operating temp range:	-40°C to +80°C (circuit sealed against condensation)

Material:	High heat ABS blend
Dimensions (mm):	76 x 40 x 78
Mounting:	Shelf or DIN-rail socket
Connector:	Single rear mount 11-pin submagnal (86CP11)
Option:	1 metre flying lead
<b>PD139</b>	
As PD130 except for:	
Pulse output duration:	Approx. 150ms
Power requirements:	24V AC/DC +/- 15% Requirement: 1.1VA max @ 24V DC
Output relay: (rating and type)	1A @ 230V AC change-over contacts
Dimensions (mm):	105 x 68
Mounting:	Panel or plug-in
Connector:	Molex 10-pin female
Option:	Flying lead

#### Order Information

PD131:	Single channel, 120V AC
PD132:	Single channel, 230V AC
PD134:	Single channel, 12-24 V AC/DC
PD139:	Single channel, 24V DC
PD132-PFM	Single channel, 320V AC with power fail memory
GD100:	Single channel DIN rail mount detector, 24V AC/DC
DUI00	Detector diagnostic unit