

PRODUCT DATA

3-Series Single Channel Loop Detectors

Product Description

One of the most critical components of the whole vehicle access control system is the inductive loop detector. Nortech's detectors have been renowned for their reliability and durability for many years.

Single channel loop detectors are used to identify the presence of vehicles by means of an inductive loop buried under the road. These "single 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.

Features

PD130 - Vehicle Detector

- Compact size & elegant styling
- **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

DU100 - Detector Diagnostics Unit

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



Applications

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





DU100 **Diagnostic Unit**



3-Series Single Channel Loop Detectors

Technical Details

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

20-1500mH

4 step adjustable:

by loop geometry)

safe) rated at 5A @ 230V AC

safe) rated at 5A @ 230V AC

safe) rated at 1A @ 230V AC

safe) rated at 1A @ 230V AC Pulse O/P duration: PD130: Approx. 150ms, factory option 250ms PD139: Approx. 150ms

High: 0.02% $\Delta L/L;~$ Medium High: 0.05% $\Delta L/L;~$ Medium Low: 0.1% $\Delta L/L;~$ Low: 0.5% $\Delta L/L~$

4 step adjustable, 12-80kHz (frequency determined

Presence output relay - Change-over contacts (fail-

Pulse output relay - Change-over contacts (non-fail-

Presence output relay - Change-over contacts (fail-

Pulse output relay - Change-over contacts (non-fail-

Switch selectable automatic sensitivity boost 1 hour for 3% Δ L/L, permanent presence option

- 2. Pulse on detect/pulse on undetect
- 3. Automatic sensitivity boost off/on
- 4. Filter off/on (2 second delay)

Specifications

Self tuning range:

PD130 O/P relays:

PD139 O/P relay:

ASB:

Presence time:

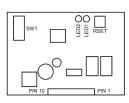
Sensitivity:

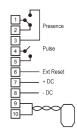
Frequency:

PD130				
	POWER O CH1 O			
	PRES PLLSE FLT ASB FREQ FREQ MODE			
	RESET •			
Pulse				

00120

PD139





Protection:	Loop isolation transformer,	
	zener diode clamping on loop inputs and gas discharge tube protection	
PD130 Power reqt.:	120V AC +/- 15% 48-60Hz (PD131)	
	230V AC +/- 15% 48-60Hz (PD132)	
	12-24V AC/DC +/- 15% (PD134)	
	Current: 1.5VA max @ 230V	
PD139 Power reqt.:	24V AC/DC +/- 15%	
	Current: 1.1VA max @ 24V DC	
Operating temp:	-40°C to +80°C (circuit sealed against condensation)	
Material:	PD130: High heat ABS blend	
Dimensions (mm):	PD130: 76 x 40 x 78; PD139: 105 x 68	
Mounting:	PD130: Shelf or DIN-rail socket; PD139: Panel or plug-in	
Connector:	PD130: Single rear mount 11-pin submagnal (86CP11); PD139: Molex 10-pin female	
Option:	Flying leads	

Ordering Information

PD131:	D131: Single channel, boxed, 120V AC		Single channel, PCB, designed to fit FAAC
PD132:	Single channel, boxed, 230V AC		barrier controllers
PD134:	Single channel, boxed, 12-24 V AC/DC	DU100	Detector diagnostic unit
PD139:	Single channel, PCB, 24V DC		

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