

PRODUCT DATA

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Dual Channel Vehicle 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 over many years.

Dual channel loop detectors are used to identify the presence of vehicles by means of two independent inductive loops buried under the road and can be used in almost any application.

Nortech's Dual channel detectors feature A-B logic and flexibility to eliminate cross-talk. All detectors are CE tested and approved. A compact detector diagnostic unit is available for extracting data from new and existing sites.

FEATURES

PD230- Vehicle Detector

- Compact size
- Flexible
- Automatic Sensitivity Boost (ASB)
- A-B Logic
- Fault monitor
- Diagnostic capabilities

PD239 - 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

PD230

- Compact, self-contained test
- Exclusive optical read-out
- No service disruption
 - Loop diagnosis

POWER

CHI

CH2

RESET

- 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



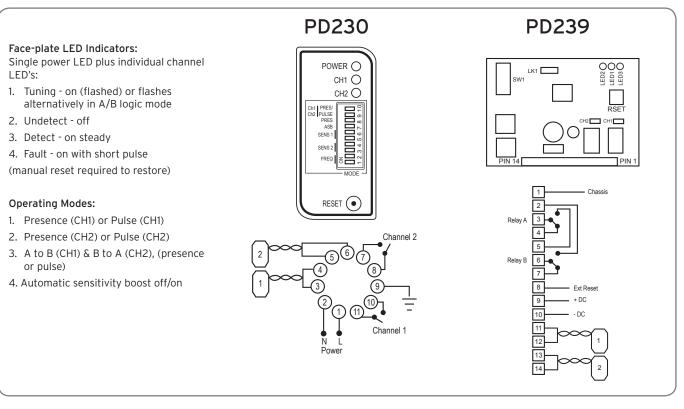
PD239



DU100

Dual Channel Vehicle Detectors

Technical Details



Specifications

PD230 Self-tuning range:	20-1000µH		Operating temp range:	channel (fail-safe) -40oC to +80oC
Sensitivity:	4-step selectable per channel:		Material:	(circuit sealed against condensation) High heat ABS blend
High:	0.02% ∆ L/L Medium High:	0.05% Δ L/L	Dimensions (mm):	76 x 40 x 78
	Medium Low:	0.1% Δ L/L	Mounting:	Shelf or DIN rail socket
	Low:	0.5% Δ L/L	Connector:	Single rear-mount 11-pin submagnal
Frequency:	4-step adjustable, 20-70kHz			(86CP11)
	(frequency determined by loop		Option:	1 metre flying lead
	geometry)			
Output configuration:	1 output relays per		PD239	
	Fail secure (factory	option)	As PD230 except for:	
Automatic Sensitivity Boost:	Switch selectable		Self-tuning range:	20-1500µH
Pulse output duration:	Approx. 150ms		Pulse output duration:	Approx. 150ms
	(factory option 250)ms)	Presence time:	1 hour for 3% Δ L/L permanent presence
Presence time:	sence time: Selectable: limited or p			option
	Limited: presence 1	hour for 3% Δ L/L	Power requirements:	24V AC/DC +/- 15%
Protection:	Loop isolation trans	sformer, zener	Requirement:	1.1VA max @ 24V DC
	diode clamping on	loop inputs and gas	Output relay:	1A @ 230V AC; change-over contacts
	discharge tube prof	tection	Dimensions (mm):	105 x 68
Power requirements:	120V AC +/- 15% 48	8-60Hz (PD231)	Mounting:	Panel or plug-in
	230V AC +/- 15% 4	8-60Hz (PD232)	Connector:	Molex 14-pin female
	12-24V AC/DC +/- 15	5% (PD234)	Option:	Flying lead
Requirement:	1.5VA max @ 230V			· -

Ordering Information

Output relays:

PD231:	Dual channel, 110V AC	PD239:	Card based dual channel, 24V DC
PD232:	Dual channel, 230V AC	DU100:	Detector diagnostic unit
PD234:	Dual channel, 12-24 V AC/DC		

5A @ 230V AC; N/O contact per

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