



FEATURES

Compact Size:

The compact aesthetically pleasing housing combined with all the industry requirements regarding features and functionality allows this detector to be incorporated into any new or existing vehicle detection system.

Diagnostic Capabilities:

The software of this unit allows comprehensive diagnostics capabilities in conjunction with separate DU100 hand-held diagnostics readout. Advanced diagnostics features are covered by International patents.

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 Isolation Protection:

The loop isolation transformer provides protection against lightning and transient damage and allows for operation with single point to ground sensor loops.

Loop Frequency Indication:

The possibility of crosstalk (interference) between adjacent loops/detectors can be determined by an integral indication, and eliminated by changing the frequency settings.

Single Channel Inductive Loop Vehicle Detector

PD132 / PD134

The PD130 series is single channel а microprocessor based detector designed specifically for parking and vehicle access control application. The PD130 has been designed using the most up-to-date technology in order to meet the requirements of a vast number of parking applications in terms of operating conditions and options available to the user.

The primary function of the detector is to detect vehicle presence by means of an inductance change caused by the vehicle passing over a wire loop buried under the road surface.

PART NUMBERS

301FT0101	PD132D Nortech	240 VAC
301FT0122	PD134D Nortech	12-24V AC/DC
301FT0175	PD134D Delay 0 - 4 sec	12-24V AC/DC

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:

Selection of the filter option will provide a finite turn-on delay, thus allowing small or fast-moving objects to pass over the loop undetected.

APPLICATIONS

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

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TECHNICAL DETAILS

20-1500µH

High: 0.02% ΔL/L

Low: 0.5% ΔL/L

2 output relays:

Approx. 150ms

plate

presence

Factory option 250ms Presence time: 1 hour for 3% ΔL/L and permanent

geometry)

Medium High: 0.05% ΔL/L Medium Low: 0.1% ΔL/L

by switch setting and loop

Relay 1 = Presence output Relay 2 = Pulse output

Four way Mode selector on face-

1. Limited presence/ permanent

2. Pulse on detect/Pulse on

Four step adjustable on face-plate:

Four step adjustable on face plate, 12-80kHz (frequency determined

Self tuning

Sensitivity:

Frequency:

Output

Configuration

Pulse output

presence option

duration:

Operating

Indications:

Protection:

requirements:

Power

Presence Output Relay: Pulse relay:

modes:

range:

PD132 / PD134

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

Mechanical detail:

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



undetect 3. Automatic Sensitivity Boost off/on 4. Filter off/on (2 second delay)	w pir	/IRING DET <i>A</i>	AILS	designation	
The following face-plate indications are provided: Red LED – power; Green LED – channel indicator 1. Tuning – on steady followed by flashing frequency count (x 10 kHz) 2. Undetect – off 3. Detect – on steady 4. Fault – on with short off	1 2 3 4 5 6 7 8	Live Neutral Pulse Rel Presence Presence Loop	lay Relay	230V AC 50 12 - 24V AC Normally Op Common co Normally Op Common co Twist this pair	C/DC Den contact Intact Den contact
Loop isolation transformer, zener diode clamping on loop inputs and gas discharge tube protection 120V AC ± 15% 48-60Hz (PD131) 240V AC ± 15% 48-60Hz (PD132) 12-24V AC/DC ± 15% (PD134) 1.5VA max @ 230V	9 10 11	Earth Presence Pulse Re	lay	Normally Clo Normally Clo	
5A @ 230V AC Change-over contacts (fail-safe) 5A @ 230V AC Change-over contacts (non-fail-		301FT0041 CTR 119090	1 metre flyi 11 pin Rela	-	



safe)