

DSP-262 Dual Channel Vehicle Detector

The Only Vehicle Detector You Will Ever Need!

OVERVIEW

The DSP-262 vehicle detector has been specifically designed to handle all traffic applications.

Working on virtually any size loop, the DSP-262 tunes itself automatically to the best operating frequency within the selected range. Environmental conditions are constantly compensated with the DSP-262's *HYPERTRACK* software. The DSP-262's inherent noise filtering algorithms allow it to work reliably in any electrical situation.

With its easy to understand front panel switches and built-in flexibility the DSP-262 is the most "user friendly" detector on the market today.

FEATURES

Loop Size - Works on in-ground inductive loops from 20 to 1500 μ H.

Fail Safe Operation - The detector is configured to output a call whenever the loop circuit has failed.

Indicators - Separate "Detect" and "Power" LEDs for each channel.

Sensitivity - Seven sensitivity settings with sensitivity 0 indicating the channel is off.

Frequency - Automatically tunes within one of four operating ranges.

Detection Output - Can be modified by delay and extension. Can be programmed to output either presence or pulse.

Loop failure - If the loop fails, the separate green Power LED will indicate the appropriate failure type.

Delay - Can be selected to ignore fast moving or "right turn" vehicles over the loop. Delay can be set from 0 to 63 seconds in one second increments.

Extension - Extends a call for slow moving vehicles. Extension can be set from 0 to 15.75 seconds in quarter second increments.

Phone: (866) 395-6677 (Toll Free Sales)
FAX: (510) 490-4111



ADDITIONAL OPTIONS

Solid-State Outputs - The DSP-262 can be ordered in a solid-state version, or a version with relays.

Min Presence - A minimum presence of 125 ms can be programmed by setting jumper J1 on the main PC board. This feature ensures that all presence outputs (even on high-speed arterials) will last at least for 125 ms.

Green Extend - Normal operation always honors any extension time programmed. The DSP-262 can be set up to extend only during the green interval by setting internal jumper J2 and connecting the green input for that phase to edge connector.

Status Outputs - Each channel has edge connector pin which continuously reflects the channel's status.



Stuck in traffic for over 30 years!

Phone: (925) 837-1884 (Technical Help)
Web Site: www.diablocontrols.com

DSP-262 INSTRUCTIONS AND SPECIFICATIONS

Sensitivity - Almost all traffic control applications can be handled with sensitivity set at NORMAL (level 4). The sensitivity DIP switch should rarely be moved from NORMAL. However, the DSP-262 has seven sensitivity settings varying from a LOW of level 1 to a HIGH of level 7. Sensitivity 0 will disable the channel.

Delay – Delay is the interval between vehicle arrival and output activation. Delay time can be programmed from 0 to 63 seconds in one second increments. During the delay interval, the CALL LED is flashed slowly. If the vehicle leaves before the delay interval times out, the output will not occur.

Extension - Extension is the interval after vehicle exit and output deactivation. Extension time can be programmed from 0 to 15.75 seconds in quarter second increments. During this interval, the CALL LED is flashed rapidly. If another vehicle arrives before the interval times out, the output will not be dropped.

Pulse / Presence - With this switch turned on the main output will output a 125 ms pulse each time a vehicle enters the loop detection area. If the vehicle remains within the loop for two seconds, the detector will automatically retune making itself ready for the next vehicle to arrive. If this switch is turned off, the detector will output presence. Both modes are subject to any delay and extension times programmed.

Frequency - One of four operating frequencies can be selected by using front panel FREQ1 and FREQ2.

NOTE - Changing any DIPSWITCH setting automatically resets the detector which cancels the call output.

Indicators

The green POWER LED shows the following status:

Normal	On
Loop open	1 flash/second
Loop shorted	2 flashes/second
Intermittent loop	3 flashes/second
Channel disabled	Off

The red DETECT LED shows the following status:

Delay	Blinks Slowly
Call	On
Extension	Blinks Fast
No Call	Off

Fail Safe Operation - In the standard fail safe mode, the main output is normally energized and will de-energize for either of the following conditions: vehicle detection or loop failure. The relay version of the DSP-262 will place a call during power failure as well.

Output Ratings

Relay Option - 3A, 150 VDC or 300 VAC.
Solid-State – 50 ma maximum, 30 VDC maximum. All outputs are optically isolated.

Power - 24 VDC, 100 mA maximum

Dimensions – H – 4.5” (11.43 cm) W – 6.875” (17.46 cm)
D – 1.12” (2.84 cm)

Connector – Standard 2 x 22 pin edge card connector with key slots located between B & C, E & F and M & N. Pin assignments are listed below:

1	Ch 1 Delay Inhibit	A	DC (-) Common
2	Ch 2 Delay Inhibit	B	DC (+) Common
3		C	Reset
4	Loop 1	D	Loop 1
5	Loop 1	E	Loop 1
6		F	Output 1 Collector
7	Ch 1 TS-2 Status	H	Output 1 Emitter
8	Loop 2	J	Loop 2
9	Loop 2	K	Loop 2
10		L	Chassis Ground
11		M	
12		N	
13		P	
14		R	
15		S	
16		T	
17		U	
18		V	
19		W	Output 2 Collector
20	Ch 2 TS-2 Status	X	Output 2 Emitter
21		Y	
22		Z	

Operating Temperature - -35°F to 165°F (-37°C to 74°C)

Storage Temperature - -67°F to 185°F (-55°C to 85°C)

Ordering Information - Standard part numbers are below:
DSP262-S 24 VDC, solid state outputs, timing (NEMA)
DSP262-R 24 VDC, relay outputs, timing (NEMA)