DSP-10 QUICK REFERENCE GUIDE

WIRING - The pin assignments for the detector and the optional wiring harness are:

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	Pin	Wire Color	Function					
			DC + or AC Line					
			DC - or AC Neutral					
ſ	3	Orange	Relay B N.O.					
ſ	5 Yellow		Chassis Ground					
			Relay A Common					
			Relay A N.O.					

Pin	Wire Color	Function			
7	Gray	Loop			
8	Brown	Loop			
9	Red	Relay B Common			
10	Pink or White/Black	Relay A N.C.			
11	Violet or White/Red	Relay B N.C.			

DIP SWITCHES

	1	Function			
OFF Detect Immediately on Entry					
ON 2 Second		2 Second Detect Delay on Entry			

2	3	Function		
OFF	OFF	No Extension		
ON	OFF	2 Second Extension Time		
OFF	ON	5 Second Extension Time		
ON	ON	10 Second Extension Time		

4	Function			
OFF	Normal Sensitivity			
ON	ON Sensitivity Boost During Detect			

5	6	Function
OFF	OFF	Relay B is Presence
ON	OFF	Relay B is an "Entry" Pulse
OFF	ON	Relay B is an "Exit" Pulse
ON	ON	Relay B is a "Fail" Condition

7	Function			
OFF	Normal Detection Hold Time			
ON Extended Detection Hold Time				

8	Function			
OFF	Inductive Loop			
ON	Free Exit Probe (Magnetometer)			

9	10	Function	
OFF	OFF	Highest Frequency	
ON	OFF	Medium Highest Frequency	
OFF	ON	Medium Lowest Frequency	
ON	ON	Lowest Frequency	

SENSITIVITY – The factory default is 5 and should work for most installations.

Setting	0	1	2	3	4	5	6	7	8	9
%∆L/L	0.48	0.32	0.24	0.16	0.12	0.08	0.06	0.04	0.03	0.02
Response	70 ms ± 10 ms 140 ms ± 20 ms									

INDICATORS

Green Power LED: Steady on when operating normally. See fault table for a flashing condition.

Fault	Display for Current Fault	Display for Prior Fault
Low Voltage	2 Hz with 50% duty cycle	NONE
Open Sensor	1 flash ON every 2 seconds	1 flash OFF every 2 seconds
Shorted Sensor	2 flashes ON every 2 seconds	2 flashes OFF every 2 seconds
Large Change	3 flashes ON every 2 seconds	3 flashes OFF every 2 seconds

Red Detect A LED: The LED will turn on when a vehicle is over the loop detection area. If delay is programmed, the LED will blink slowly during the delay interval. If extension is programmed, the LED will blink fast during the extension interval.

FAIL-SAFE or FAIL-SECURE

There are three jumpers internal to the detector that are used to select Fail-Safe or Fail-Secure mode of operation for the Relay A output. This setting determines what states the relay output should be in if a loop failure is detected. Fail-Safe operation has the relay activated. Fail-Secure has the relay deactivated. Most applications that are not high security will use the Fail-Safe mode of operation. The detector is shipped in the Fail-Safe mode from the factory.

Additional information is available at the Diablo Controls website <u>www.diablocontrols.com</u> or contact technical support at (866) 395-6677.

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