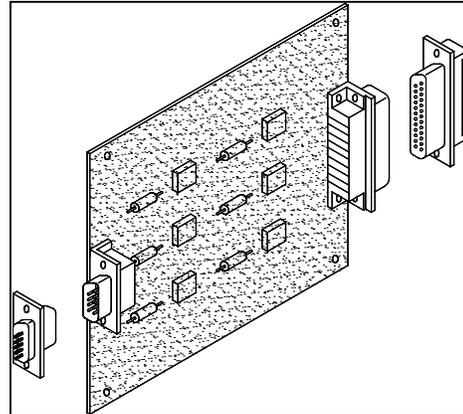


**-- Preliminary --**

The Traffic Sensor Interface Board is designed to condition signals from MSI's piezoelectric traffic sensors to interface with a wide variety of industry standard traffic data collection modules. The Traffic Sensor Interface Board contains six channel sensor signal conditioning circuitry, user adjustable comparator, digital pulse output, and internal power regulation. The Interface Board can be powered from a single supply voltage between +8VDC and +28 VDC.



Part Number: 1005766

**SPECIFICATIONS**

Number of input/output channels	6
Input (Analog)	9 Pin D type Male Connector
Output (Digital)	25 Pin D type Male Connector
Circuit Board Size	220mm x 128mm
Front Panel	50mm x 128mm
Storage Temperature	-40°C ~ +85°C
Operating Temperature	-40°C ~ +70°C

Output Connector Pin Assignment	
Pin Number	Assignment
1	Power Supply
2	GND
3	Not Used
4	Digital Output (CH1)
5	Digital Output (CH2)
6	Digital Output (CH3)
7	Digital Output (CH4)
8	Digital Output (CH5)
9	Digital Output (CH6)
10-12	Not Used
13-25	GND

Input Connector Pin Assignment	
Pin Number	Assignment
1	CH6
2	CH5
3	CH4
4	CH3
5	CH2
6	CH1
7	GND
8-9	Not Used

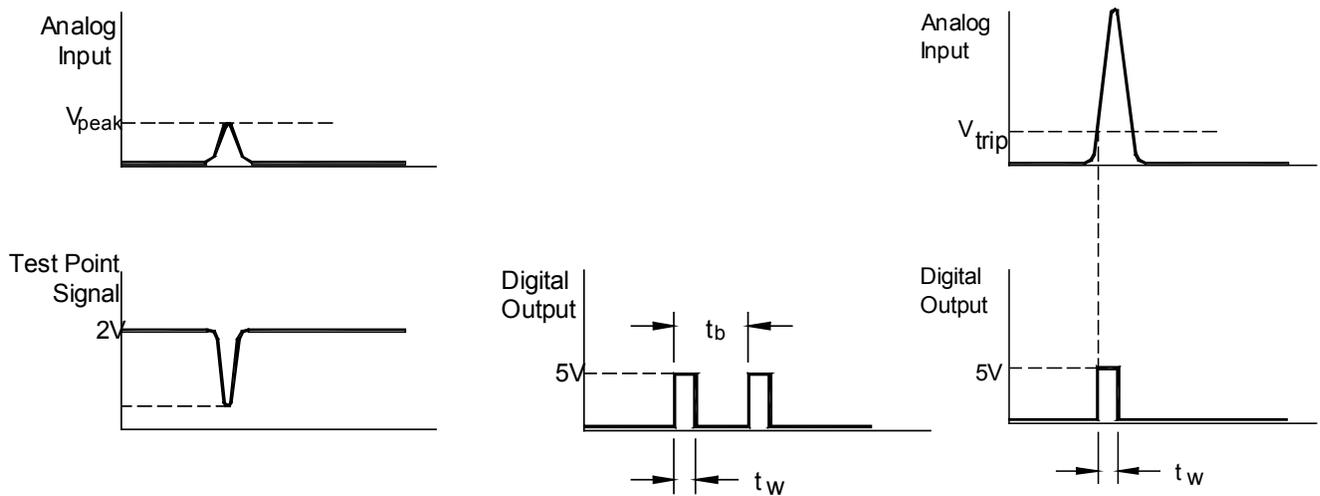
**SPECIFICATIONS (cont'd)**

<b>Analog Circuit</b>				
	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Unit</b>
Dynamic Range	25		3V	mV
Gain		2		
Lower cutoff frequency (-3dB)		0.5		Hz
Upper cutoff frequency (-3dB)		1,200		Hz
Power Supply	+8		+28	VDC

<b>Digital Output</b>				
	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Unit</b>
Output impedance			10k	ohms
Pulse output	4.5	5	5.5	V
Pulse width, $t_w$	2.8	3.3	3.8	ms
Black-out time, $t_p$	8.5	10.0	11.5	ms

<b>Trip Level</b>			
<b>Dip Switch Position</b>	$V_{trip}$		<b>Unit</b>
All Off	0.05		V
1 On	0.1		V
2 On	0.2		V
3 On	0.4		V
4 On	0.8		V

NOTE:  $V_{trip}$  indicates the sensor voltage output to trigger digital output.



NOTE: Test point signal has -2X gain and +2V DC offset

Analog Test Point (T<sub>p</sub>)

