Preliminary Model 6255 Strain Gage to PLC High Speed Counter

Specifications	6255		
Input	Full Bridge Strain Gage or Single Ended		
Resistance	1000 megohms differential		
Current	±10 nA maximum		
Linearity	±0.02% of Full Scale		
Common Mode	0 to +5.5 Volts		
Span Range - Internal DIP Switch	**Switch Position**	**Full Scale Input**	
	1	50 mV	Switch positions shown must ALL be on up to the Range desired, i.e. to select 10 mV switches 2, 3, 4, and 5 must be ON. Switch 1 can be ON or OFF.
	2	25 mV	
	3	16.6 mV	
	4	12.5 mV	
	5	10 mV	
	6	8.3 mV	
	7	7.14 mV	
Accuracy	±1.5%		
Span Adjustment	±10% of Full Scale on the 50 mV Range decreasing to ± 2% 7.14 mV Range ±15% of Input Range		
Zero/Tare Adjustment	±15% of Input Range		
Factory Calibration	Zero = 100 Hz 50 mV = 10100 Hz		
Output	100 to 10100 Hz Floating Optocoupler NPN Transistor 7 mA Pulse - 50 µSec Width Typical		
Bridge Excitation	Fixed 10 Volts , ±1.5%		
Load Current	0 to 30 mV		
Power Requirments	22 to 26 VDC @ 45 mA Maximum		
Environment			
Operating	0°C to +55°C		
Storage	-40°C to +80°C		
Size	1.65"H x 1.06"W x 3.78"L (42 x 27 x 96 mm)		
Weight	3 oz. (85grams)		

Field Calibration:

1. Connect up the strain gage and power.
2. Select Full Scale Input Range.
3. Apply Zero load to strain gage.
4. Adjust ZERO potentiometer for 100 Hz.
5. Apply full scale load to strain gage.
6. Adjust SPAN potentiometer for 10100 Hz (or desired full scale frequency).
7. Repeat steps 2 through 5 as necessary.

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