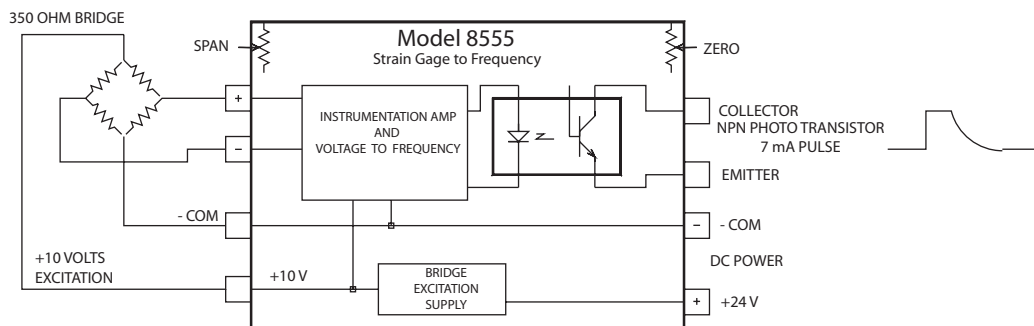


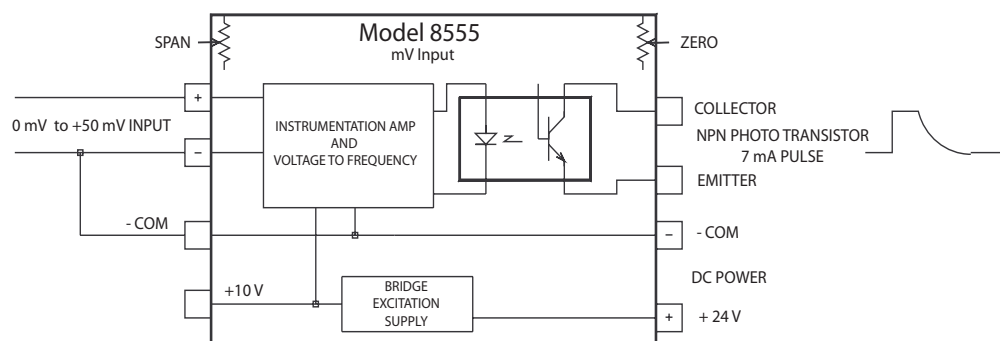


**Model 8555** analog to frequency converter offers a cost effective solution for a single or multiple channel PLC I/O system. It is designed to operate into PLC high speed counter inputs. The input range of 0 to 50 mV makes the 8555 compatible with most strain gage based load cell or pressure transducer outputs. The built-in 10V excitation supply is capable of driving one 350 ohm bridge. The 8555 output for all modules is linear to 0.01% with a very high accuracy of better than 0.1%. The output is an isolated floating optocoupler transistor which provides DC isolation from the input and DC power. Connections are made easily accessible with screw clamp terminal blocks.

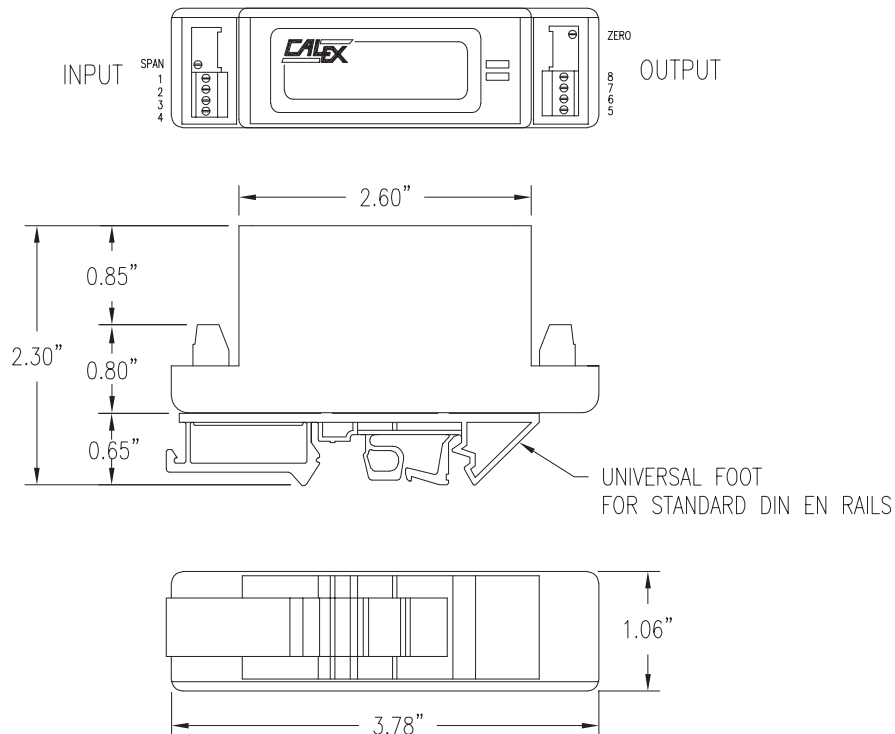
### FULL BRIDGE CONNECTION



### SINGLE ENDED



Model	8555
Input	0 to 50 mV Differential or Single Ended Single
Resistance	1000 Mohm
Current	10 nA
Common Mode	0 to +5 Volts
Output	0 to 5 kHz floating Optocoupler Transistor 7 mA Pulse - 50 $\mu$ Sec Width
Resolution	10 $\mu$ Volts, 12 Bits
Bridge Excitation	10 Volts for One 350 Ohm Bridge
Power Requirements	24 VDC @ 45 mA
Environment Operating Storage	0°C to +55°C -40°C to +80°C
Size (Not including universal foot)	1.65"H x 1.06"W x 3.78"L (42 x 27 x 96 mm)
Weight	3 oz (85 grams)
Agency Approvals	UL508, C22.2 No 14-M91, UL1604, C22.2 No 213-M1987



MODEL 8555	
PIN	FUNCTION
1	+ SIGNAL
2	- SIGNAL
3	- COM
4	+ EXCITATION
5	COLLECTOR
6	EMITTER
7	COM
8	+24 VDC

### 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 0 Hz.
5. Apply full scale load to strain gage.
6. Adjust Span potentiometer for 5000 Hz (or desired full scale frequency.)
7. Repeat steps 2 through 5 as necessary.