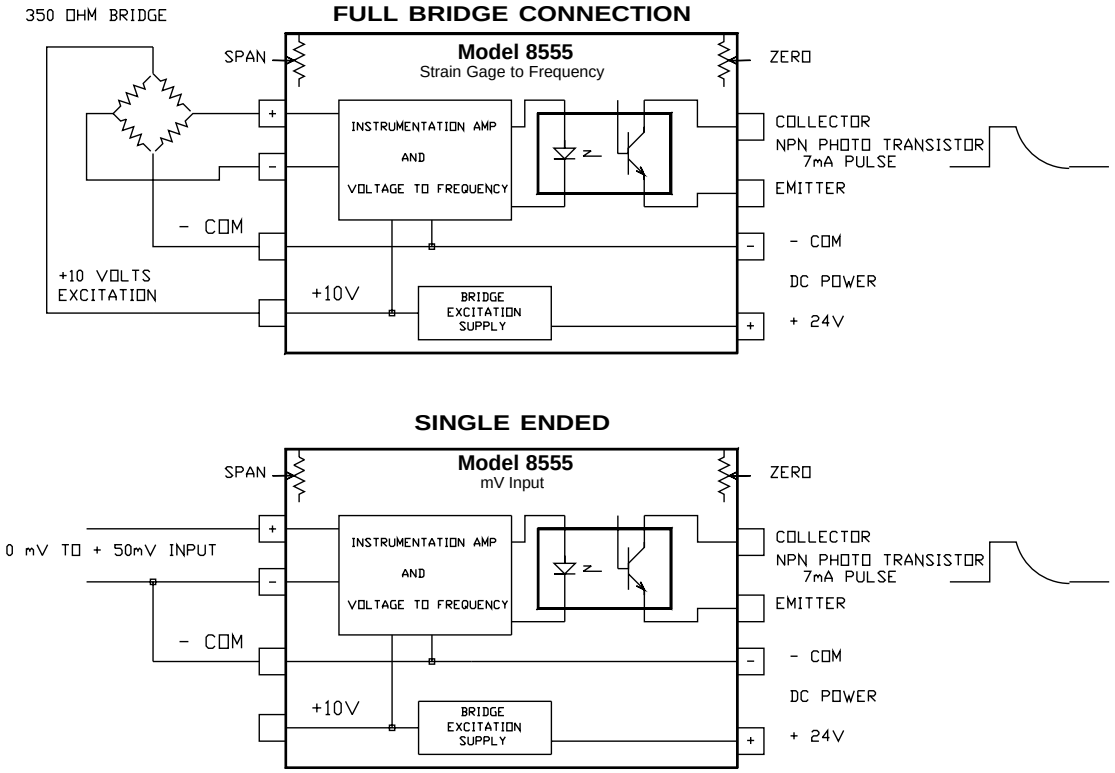
# Model 8555
# Strain Gage to Frequency

**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 the PLC high speed counter inputs. The input range of 0 to 50mV 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.




| Model | | 8555 |
|---|---|---|
| **Input** | | 0 to 50 mV Differential or Single Ended Signal |
| | Resistance | 1000 megohm |
| | Current | 10 nA |
| | Common Mode | 0 to +5 Volts |
| **Output** | | 0 to 5 kHz<br>Floating Optocoupler Transistor<br>7 mA Pulse - 50 µSec Width |
| **Resolution** | | 10 microvolts, 12 Bits |
| **Bridge Excitation** | | 10 Volts for One 350 Ohm Bridge |
| **Power Requirements** | | 24 VDC @ 45 mA |
| **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. (85 grams) |
| **Agency Approvals** | | UL 508, C22.2 No 14-M91, UL 1604, C22.2 No 213-M1987 |