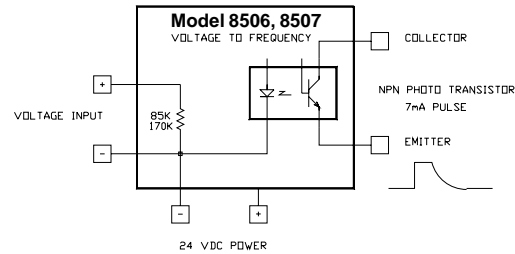
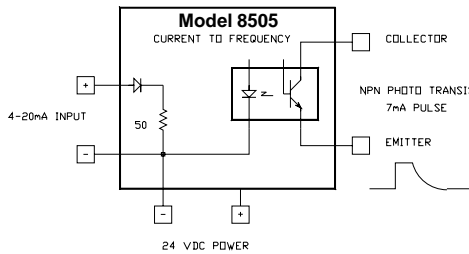


Models 8505, 8506, 8507

Analog to Frequency

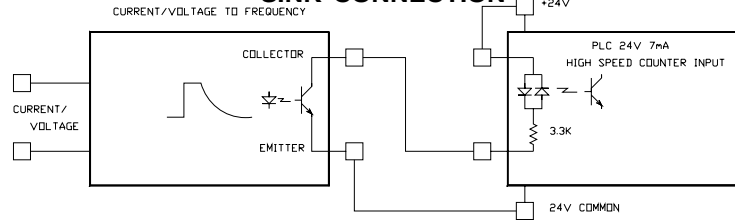
Models 8505, 8506, 8507 analog to frequency converters offer a cost effective solution for a single or multiple channel PLC I/O system. They are designed to operate into the common 24 volt, 7 mA PLC discrete counter inputs. The 4 to 20 mA input Model 8505 provides 1 kHz to 5 kHz output frequency for a 4 μ A per Hertz resolution. The Model 8506 voltage input is scaled for 1 mV per Hertz to 5 kHz for 5 volts

input. The Model 8507 voltage input is scaled for 2 mV per Hertz to 5 KHz for 10 volts input. The output for all modules is linear to 0.01% with a very high accuracy of better than 0.1%. Their 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. The output can be configured to a Sink or Source connection.



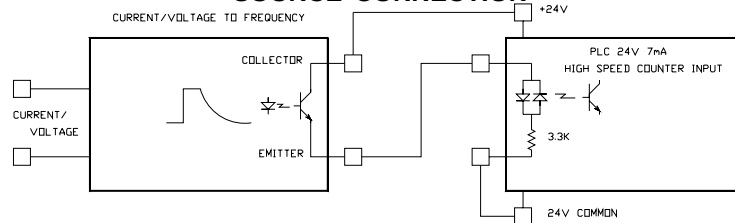
MODEL 8505, 8506, 8507

SINK CONNECTION



MODEL 8505, 8506, 8507

SOURCE CONNECTION



Model	8505	8506	8507
Input	0 to 20 mA	0 to 5 Volts	0 to 10 Volts
Output	0 to 5000 Hz	0 to 5000 Hz	0 to 5000 Hz
Resolution	4 μ A/Hz 12 Bits	1 mV/Hz 12 Bits	2 mV/Hz 12 Bits
Input Resistance	50 Ohms	85K Ohms	170K Ohms
Linearity	$\pm 0.01\%$ Typical $\pm 0.05\%$ Maximum	$\pm 0.01\%$ Typical $\pm 0.05\%$ Maximum	$\pm 0.01\%$ Typical $\pm 0.05\%$ Maximum
Accuracy	$\pm 0.1\%$ Maximum	$\pm 0.1\%$ Maximum	$\pm 0.1\%$ Maximum
Temperature Coefficient	$\pm 0.003\%/^{\circ}\text{C}$ Typical $\pm 0.01\%/^{\circ}\text{C}$ Maximum	$\pm 0.003\%/^{\circ}\text{C}$ Typical $\pm 0.01\%/^{\circ}\text{C}$ Maximum	$\pm 0.003\%/^{\circ}\text{C}$ Typical $\pm 0.01\%/^{\circ}\text{C}$ Maximum
Output Source Transistor	Floating Optocoupler		
Pulse Width	50 μ s	50 μ s	50 μ s
Output Current	7 mA Minimum Current	7 mA Minimum Current	7 mA Minimum Current
Response Time	2 Cycles of Final Frequency		
Isolation	700 Volts DC 5 pF		
Power Requirements	15 to 26 Volts DC 15 mA Typical Power Supply Common Connected to Signal Input Common		
Environment	Operating: 0°C to $+55^{\circ}\text{C}$ Storage: -40°C to $+80^{\circ}\text{C}$		
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		