

Pulse timing consists of an "ON" pulse and an "OFF" interval. "OFF" interval is 1 second on standard and custom ranges.

The standard ranges for Version 1 or 2, are selected by dip switch 1 "ON" and proper settings of switches 2 and 3, allows for four different output timing ranges. Switches 4 through 8 are not active when switch 1 is on. Version 2 operates the same as Version 1 except when the input falls at or below 10% of the input signal range, no pulse output occurs, allowing for "OFF" setting of electric heat Solid State Relays (SSR's).

Input Signal								STEPS	Standard Output Range			
0-5 V	1-5 V	0-10 V	2-10 V	0-15 V	3-15 V	0-20 mA	4-20 mA		DIP: 1, 3 20ms/step ON	1 23ms/step ON	1, 2 100ms/step ON	1, 2, 3 9ms/step ON
0	1	0	2	0	3	0	4	0	0	0	0.1	0.59
1.25	2	2.5	4	3.75	6	5	8	64	1.3	1.5	6.5	1.18
2.5	3	5	6	7.5	9	10	12	128	2.5	3	12.8	1.76
3.75	4	7.5	8	11.25	12	15	16	191	3.8	4.5	19.2	2.35
5	5	10	10	15	15	20	20	255	5	6	35.5	2.93
No pulse is output when Version 2 input falls at or below 10% of the input signal range.									J O H N S O N	S O L I D Y N E	A N D O V E R	N O V A R

The custom mode (refer to chart below) allows for a variety of pulse timing ranges. The custom mode, selected by dip switch 1 "OFF", allows switches 2 through 8 to select "ON" pulse timing ranges. These "ON" times are cumulative and multiple switches can be selected.

Example: 0-10V signal input to an output pulse range of 150ms to 38.4 seconds.

1. To obtain a starting pulse width signal of 150 milliseconds(ms) turn switches 2 & 3 ON, all others OFF (dip switch 2 on = 50ms at 0 volts, and dip switch 3 on = 100ms at 0 volts).
2. By looking at the bottom chart note that at 10 volts input signal, the values for switches 2 & 3 "ON" are 12.8 and 25.6 seconds respectively, totalling 38.4 seconds.

The output range selected is now 150ms to 38.4 seconds.

All times on the charts are shown in seconds (or portion of) with a maximum 6.4 seconds. A pulsing "RUN" LED indicates pulse width signal output.

Input Signal								STEPS	Custom Output Range (DIP Switch Values if ON)							
0-5 V	1-5 V	0-10 V	2-10 V	0-15 V	3-15 V	0-20 mA	4-20 mA		2 50ms/step ON	3 100ms/step ON	4 200ms/step ON	5 400ms/step ON	6 800ms/step ON	7 1.6s/step ON	8 3.2s/step ON	2-8 6.35s/step ON
0	1	0	2	0	3	0	4	0	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.4
1.25	2	2.5	4	3.75	6	5	8	64	3.3	6.5	13	26	52	104	208	413
2.5	3	5	6	7.5	9	10	12	128	6.5	12.9	25.8	52	103	206	413	819
3.75	4	7.5	8	11.25	12	15	16	191	9.6	19.2	38.4	77	154	307	614	1219
5	5	10	10	15	15	20	20	255	12.8	25.6	51.2	102	205	410	819	1626

No pulse is output when Version 2 input falls at or below 10% of the input signal range.

Power Supply: Voltage: 24 VAC or 24 VDC, +/- 10%
Current: 50 mA
Analog Input: Voltage/Impedance: 0-15VDC/1,000,000 ohms
Current/Impedance: 0-20 mA/250 ohms

Digital Output: Triac - Voltage: 22-28 VAC only
Current: 3 amps