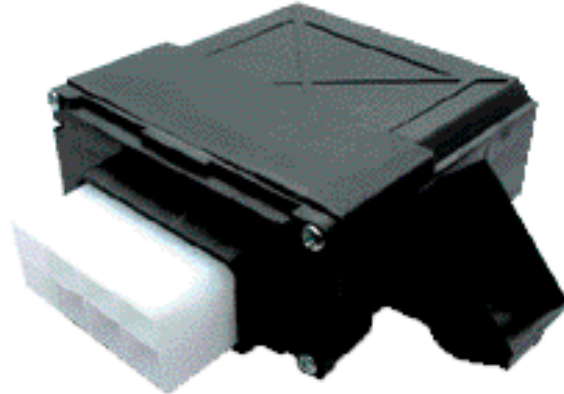




Universal Signal Conversion - Ratio Box

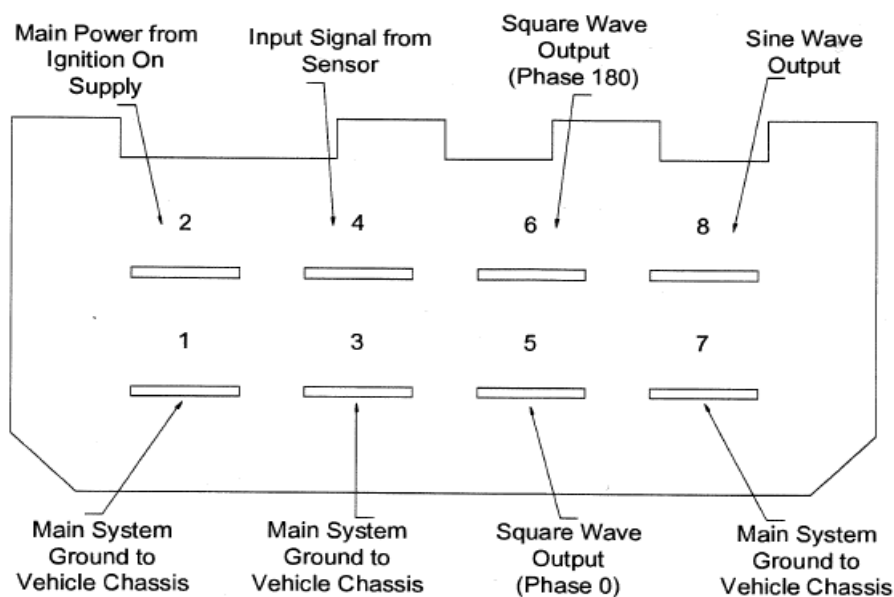
Part No. 411.110



Features

- Input Signal Filter (low level, noise etc.)
- Ratios Input Frequency Up or Down, settable with Internal DIP Switch
- Square Wave In Square Wave Out
- Square Wave In Sine Wave Out
- Sine Wave In Sine Wave Out
- Sine Wave In Square Wave Out
- Wide Operational Supply range 6 - 24V DC

Input Signal Voltage Level	1.5V p-p to V Supply
Input Signal Frequency Range	10Hz to 5000Hz
Output Signal Voltage Level Sine	4-5 Volts p-p into 1K ohm
Output Signal Voltage Level Square	V Supply
DIP Switch Settable Ratio Range	0.0125 to 3.1875



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3083 Victoria

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Ratio Setting:

An internal 8-bit DIP switch is to be used to set the ratio.

The ratio is equal to the equivalent binary value of the switch setting divided by 80.

The setting can be made while the unit is operating and the new setting will immediately become effective. Setting the switch to zero (all switches off) will have no effect and the immediately preceding non- zero setting will continue to be used.

Note: SW1– SW8 used to select Ratio, When switch is ON = 1, Switch is OFF = 0, for example if SW2 and SW4 are ON, it would be 01010000 as per table, ratio = 1

SW1-SW8	Ratio	SW1-SW8	Ratio	SW1-SW8	Ratio	SW1-SW8	Ratio	SW1-SW8	Ratio	SW1-SW8	Ratio
00000000	No Change	00110100	0.06500	01101000	1.3000	10011100	1.9500	11010000	2.6000		
00000001	0.0125	00110101	0.6625	01101001	1.3125	10011101	1.9625	11010001	2.6125		
00000010	0.0250	00110110	0.6750	01101010	1.3250	10011110	1.9750	11010010	2.6250		
00000011	0.0375	00110111	0.6875	01101011	1.3375	10011111	1.9875	11010011	2.6375		
00000100	0.0500	00111000	0.7000	01101100	1.3500	10100000	2.0000	11010100	2.6500		
00000101	0.0625	00111001	0.7125	01101101	1.3625	10100001	2.0125	11010101	2.6625		
00000110	0.0750	00111010	0.7250	01101110	1.3750	10100010	2.0250	11010110	2.6750		
00000111	0.0875	00111011	0.7375	01101111	1.3875	10100011	2.0375	11010111	2.6875		
00001000	0.1000	00111100	0.7500	01110000	1.4000	10100100	2.0500	11011000	2.7000		
00001001	0.0125	00111101	0.7625	01110001	1.4125	10100101	2.0625	11011001	2.7125		
00001010	0.1250	00111110	0.7750	01110010	1.4250	10100110	2.0750	11011010	2.7250		
00001011	0.1375	00111111	0.7875	01110011	1.4375	10100111	2.0875	11011011	2.7375		
00001100	0.1500	01000000	0.8000	01110100	1.4500	10101000	2.1000	11011100	2.7500		
00001101	0.1625	01000001	0.8125	01110101	1.4625	10101001	2.1125	11011101	2.7625		
00001110	0.1750	01000010	0.8250	01110110	1.4750	10101010	2.1250	11011110	2.7750		
00001111	0.1875	01000011	0.8375	01110111	1.4875	10101011	2.1375	11011111	2.7875		
00010000	0.2000	01000100	0.8500	01111000	1.5000	10101100	2.1500	11100000	2.8000		
00010001	0.2125	01000101	0.8625	01111001	1.5125	10101101	2.1625	11100001	2.8125		
00010010	0.2250	01000110	0.8750	01111010	1.5250	10101110	2.1750	11100010	2.8250		
00010011	0.2375	01000111	0.8875	01111011	1.5375	10101111	2.1875	11100011	2.8375		
00010100	0.2500	01001000	0.9000	01111100	1.5500	10110000	2.2000	11100100	2.8500		
00010101	0.2625	01001001	0.9125	01111101	1.5625	10110001	2.2125	11100101	2.8625		
00010110	0.2750	01001010	0.9250	01111110	1.5750	10110010	2.2250	11100110	2.8750		
00010111	0.2875	01001011	0.9375	01111111	1.5875	10110011	2.2375	11100111	2.8875		
00011000	0.3000	01001100	0.9500	10000000	1.6000	10110100	2.2500	11101000	2.9000		
00011001	0.3125	01001101	0.9625	10000001	1.6125	10110101	2.2625	11101001	2.9125		
00011010	0.3250	01001110	0.9750	10000010	1.6250	10110110	2.2750	11101010	2.9250		
00011011	0.3375	01001111	0.9875	10000011	1.6375	10110111	2.2875	11101011	2.9375		
00011100	0.3500	01010000	1.0000	10000100	1.6500	10000100	2.3000	11101100	2.9500		
00011101	0.3625	01010001	1.0125	10000101	1.6625	10000101	2.3125	11101101	2.9625		
00011110	0.3750	01010010	1.0250	10000110	1.6750	10111010	2.3250	11101110	2.9750		
00011111	0.3875	01010011	1.0375	10000111	1.6875	10111011	2.3375	11101111	2.9875		
00100000	0.4000	01010100	1.0500	10001000	1.7000	10111100	2.3500	11110000	3.0000		
00100001	0.4125	01010101	1.0625	10001001	1.7125	10111101	2.3625	11110001	3.0125		
00100010	0.4250	01010110	1.0750	10001010	1.7250	10111110	2.3750	11110010	3.0250		
00100011	0.4375	01010111	1.0875	10001011	1.7375	10111111	2.3875	11110011	3.0375		
00100100	0.4500	01011000	1.1000	10001100	1.7500	11000000	2.4000	11110100	3.0500		
00100101	0.4625	01011001	1.1125	10001101	1.7625	11000001	2.4125	11110101	3.0625		
00100110	0.4750	01011010	1.1250	10001110	1.7750	11000010	2.4250	11110110	3.0750		
00100111	0.4875	01011011	1.1375	10001111	1.7875	11000011	2.4375	11110111	3.0875		
00101000	0.5000	01011100	1.1500	10010000	1.8000	11000100	2.4500	11111000	3.1000		
00101001	05125	01011101	1.1625	10010001	1.8125	11000101	2.4625	11111001	3.1125		
00101010	0.5250	01011110	1.1750	10010010	1.8250	11000110	2.4750	11111010	3.1250		
00101011	0.5375	01011111	1.1875	10010011	1.8375	11000111	2.4875	11111011	3.1375		
00101100	0.5500	01100000	1.2000	10010100	1.8500	11001000	2.5000	11111100	3.1500		
00101101	0.5625	01100001	1.2125	10010101	1.8625	11001001	2.5125	11111101	3.1625		
00101110	0.5750	01100010	1.2250	10010110	1.8750	11001010	2.5250	11111110	3.1750		
00101111	0.5875	01100011	1.2375	10010111	1.8875	11001011	2.2575	11111111	3.1875		
00110000	0.6000	01100100	1.2375	10011000	1.9000	11001100	2.5500				
00110001	0.6125	01100101	1.2500	10011001	1.9125	11001101	2.5625				