

TECHNICAL DATASHEET #TD2016AX
PWM Converter
(0-5V to PWM)
P/N: VPWM-DR-5V (-INV)



Application:
Industrial controls,
Mobile equipment

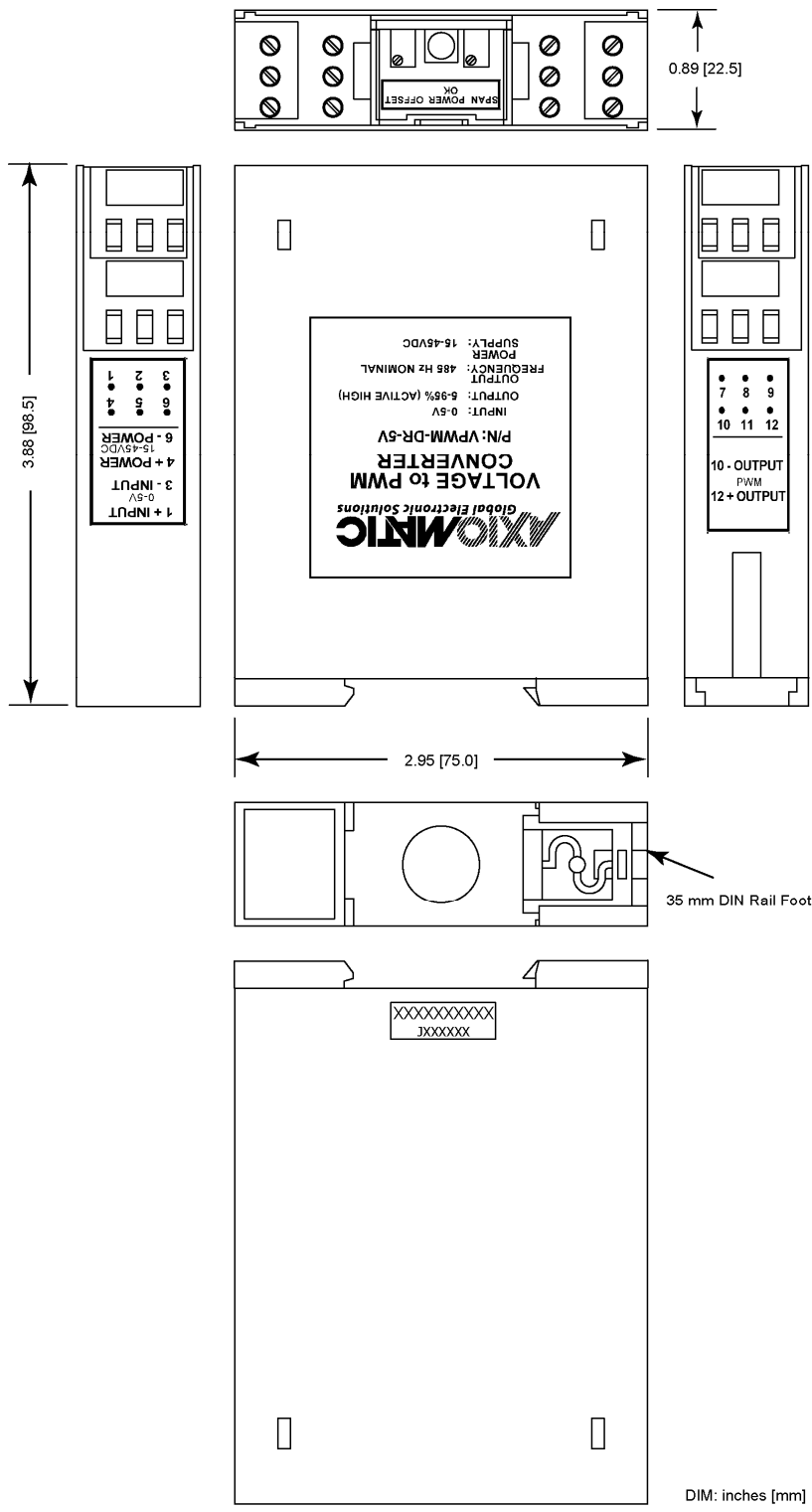
Description: PWM Converters provide a compact solution for converting voltage into digital pulse width modulated (PWM) signal.

All specifications typical at nominal input voltage and 25 degrees C unless otherwise specified.

Technical Specifications:

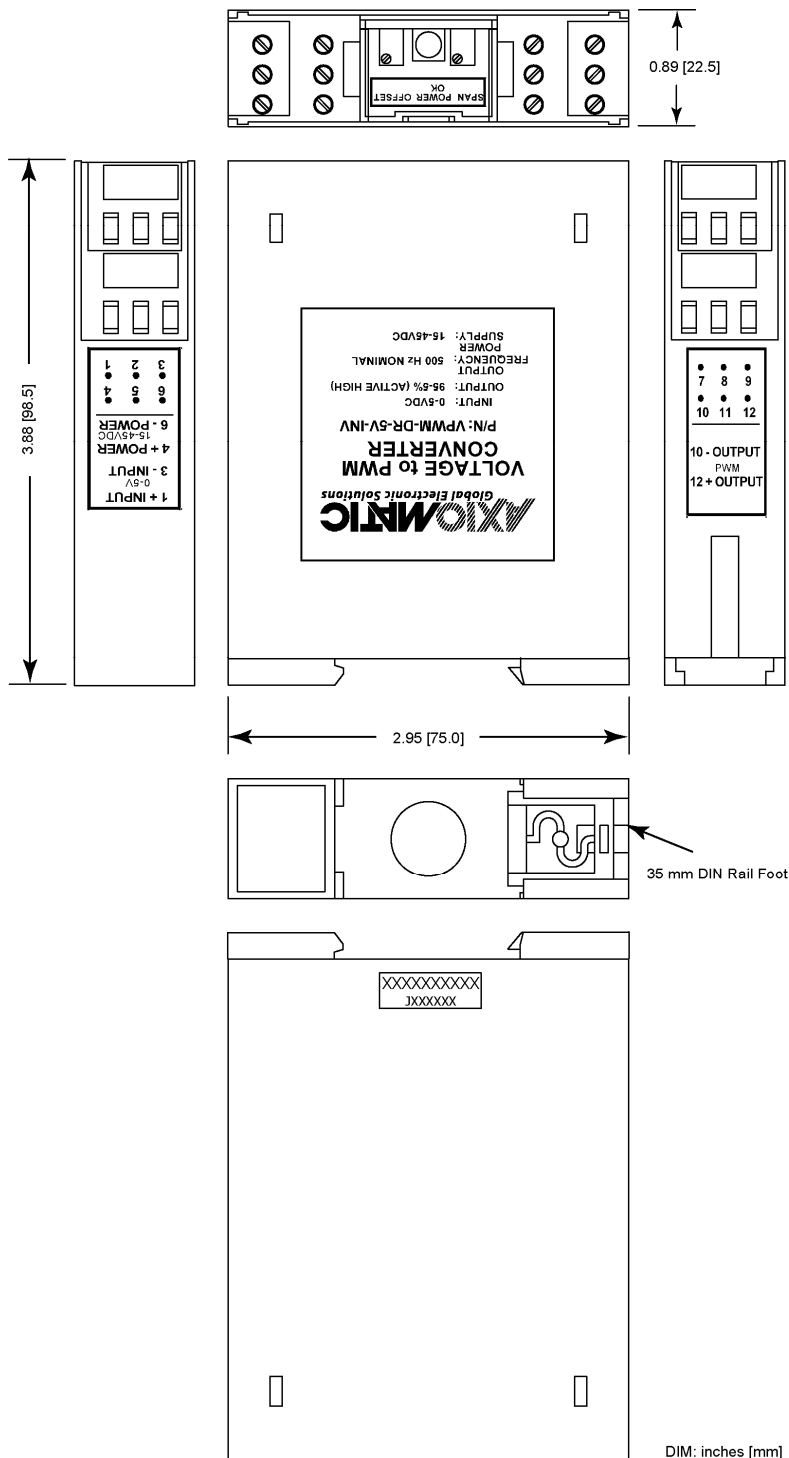
0-5V to PWM

Ordering Part Number:	VPWM-DR-5V or VPWMDR5V-INV
Input Specifications:	
Voltage	Fully isolated, 0-5V
Output Specifications:	
PWM Output	<p><i>Model VPWMDR5V:</i> PWM frequency 485 Hz +/-10% 5-95% D.C. (Variable Active High)</p> <p><i>Model VPWMDR5V-INV:</i> PWM frequency 500 Hz +/-10% 95-5% D.C. (Variable Active High)</p> <p>Open collector, Over-current protection</p>
Reference Voltage Output	<p>Low output voltage: 0.3VDC @ 5%</p> <p>High output voltage: 0.7VDC @ 90%</p> <p>Maximum output voltage: 30V or less (at 90%)</p>
General Specifications:	
Response Time	<10 mSec.
Power Supply	24VDC (15-45VDC) Transient protection
Reverse Polarity Protection	Provided
LED Indication	Power ON
Power Consumption	29 mA @ 15VDC 20 mA @ 24VDC
Operating Conditions	-40 to 85 degrees C (-40 to 185 degrees F) 0-95% relative humidity
Adjustments	<p>Span and Offset (Zero) Default settings are provided.</p> <div style="border: 1px solid black; padding: 5px;"> <p><i>If further adjustment is desired, follow these steps. Trim pots are 10-turn.</i> OFFSET, CW = increase SPAN, CCW = increase 1. When 0V is applied, adjust Zero trim pot to 5%. (Default) 2. When 5V is applied, adjust Span trim pot to the 90%. (Default) NB. PWM output can be measured using a multi-meter with that feature.</p> </div>
Electrical connection	#14-24 AWG screw terminals
Packaging	Polycarbonate JIT Components: DR12 housing, DIN rail mount
Dimensions	75 x 98.5 x 22.5 mm (W x H x D) 2.95 x 3.88 x 0.89 inches
Weight	0.25 lbs. (0.11 kg)
Protection	IP40 (housing), Terminals IP20



DIM: inches [mm]

VPWM-DR-5V
 July 15, 2013 A. Wilkins
 Axiomatic Technologies Corporation



DIM: inches [mm]

VPWM-DR-5V-INV
 July 15, 2013 A. Wilkins
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Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on www.axiomatic.com/service.html.

Form: TD2016AX-07/15/13