

Encoder Signal Conditioner

EC-LV

- In-line signal conditioner
- Frequency to voltage converter
- Angular position 0-360°
- Angular velocity
- Externally adjustable full-scale RPM and direction



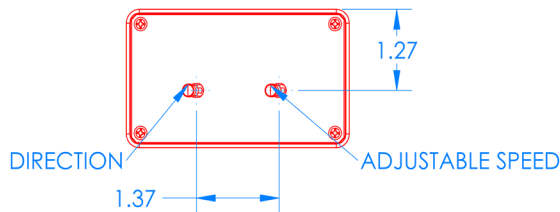
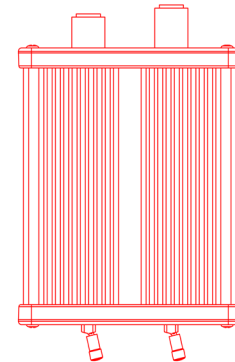
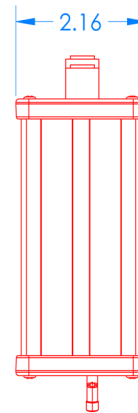
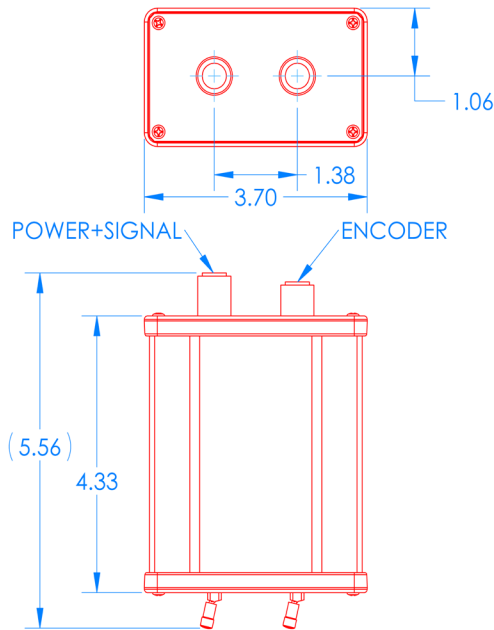
Description


The *EC-LV* is an encoder signal conditioner, which can be used to convert the digital pulses of the *Wheel Pulse Transducer (WPT)* or some slip ring assemblies with built in encoders into linear voltages. In addition to the standard encoder outputs (A, B, I, $A \oplus B$), the *EC-LV* outputs both a voltage proportional to angular velocity and a voltage proportional to the angular position from 0 to 360°. Rotational direction and speed range are externally adjustable via toggle switches. The *EC-LV* comes with two pre-set speed ranges, and these can be adjusted on special request. This signal conditioner is added in-line with the encoder cable so there is no need for post processing or an additional power supply.

Specifications

Electrical Specifications	
Input Voltage	+5 to +20 Vdc
Maximum Input Current	270 mA
Output Type (Angular Position)	0-10 Vdc
Output Type (Angular Velocity)	±10 Vdc
Output Type (Sine-Cosine)	10 V peak-to-peak
Reverse Voltage Protection	20 Vdc
Mechanical Specifications	
Size (W x D x H)	5.6 x 3.7 x 2.2 in [142 x 94 x 56 mm]
Weight	12.4 oz [351 g]
Temperature Range	-40 °F to 212 °F [-40 °C to 100 °C]
Protection Rating	IP40

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 MICHIGAN SCIENTIFIC CORPORATION 8500 ANCE ROAD CHARLEVOIX, MICHIGAN 49720 www.michsci.com			
PRODUCT LINE:			
CUSTOMER CODE:		PROJECT CODE:	
MSC		WHEEL SPEED	
DESCRIPTION: EC-LV v1			
SIZE	DWG. NO.	REV	
A	1014316	+	
SCALE: 1:2		SHEET 1 OF 1	

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 Rev. A

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