

INTERFACE INDUCTIVE SPEED SENSOR to TTL

Application



Electrical

The output of an inductive (magnetic reluctance) speed sensor is an alternating voltage in which both the frequency and magnitude depend on target speed. The TTL Interface Adaptor converts this voltage into a TTL logic signal whose frequency corresponds to tooth passing frequency. The magnitude of the output signal from the interface is independent of the tooth passing speed.

 Supply voltage is shown in the order details Input voltage threshold is shown in the order details Output level TTL compatible No load auguly surrant 20mA max 	Conversion of inductive sensor output to TTL level logic		
No load supply current 20mA max	Mechanica		
 Maximum output sink current 1mA at 0.8V Maximum output source current 100µA at 3.5V 	Weight less than 45g including cableBody material polyester		
When a rising input voltage exceeds the upper threshold, the output goes from high to low. When a falling input voltage becomes less than the lower threshold the	Polyester cable boss for strain relief to the interface body		
output goes from low to high.	Design and manufacture is in-house, so if our existing designs do not suit your application, we can provide		
Cable and Connection Definition	cost effective customised parts to suit even the most demanding application. No engineering charges are		
 22 AWG un-screened cable 	made for simple modifications such as customer specific		
• Cable length is shown on the order details but any	connectors, cable protection and cable lengths. Any of		
length is available on request	our inductive speed sensors can be supplied with this		
• Various automotive and military standard connectors are available	interface already fitted. Please contact our technical consultancy service who will be pleased to help.		
Input Connection			
White wire Pin A Pin 1 Sensor Signal +	Environmental		
Black wire Pin B Pin 2 Sensor Signal –			
Output Connection	Resistant to standard motorsport fluids		
Red wire Pin A Pin 1 Supply	Maximum humidity 100%		
White wire Pin B Pin 2 Output Signal	● Operating temperature -30 to 85 ℃		
Green wire Pin C Pin 3 Ground	 Viton jacketed cable Vibration 50 to 2500Hz @ 40g 8hrs per axis 		

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Input Threshold					
Upper	Lower	Supply Voltage	Dim "X"	Dim "Y"	Order Code
+200mV	-200mV	10±0.25V	1000mm	1000mm	O 030 200 006 005
+290mV	-290mV	5±0.2V	1000mm	1000mm	O 030 200 006 007