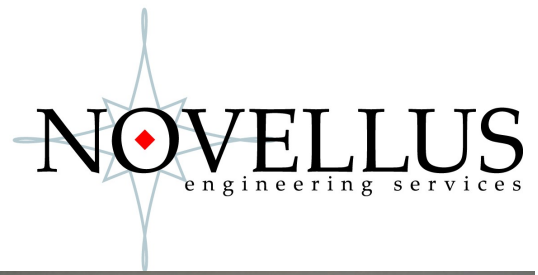


IPM Tester V2



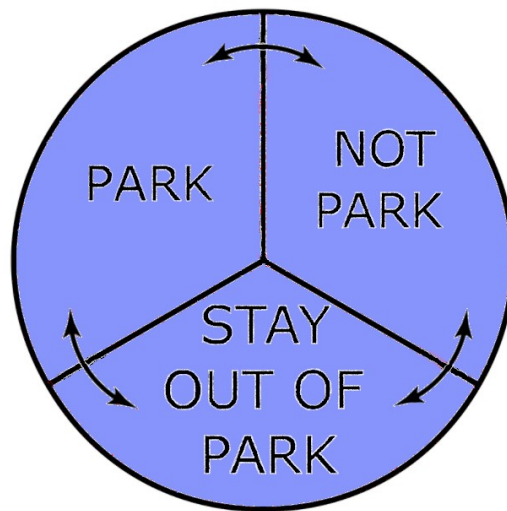
Description:

This IPM (Internal Parking Mechanism) test module is designed to actuate the rotary solenoid to put the transmission into different modes for testing.



Basic Operation:

The IPM test module is designed to verify the solenoid position is correct. It does this by sending a specific PWM command to the IPM while reading back the rotor and position of two linear sensors. The position can be selected from the front of the IPM test module. The position will then be displayed on the LCD display. The solenoid's feedback position can be read on the two linear, one digital status and one rotary BNC outputs. Commands can be selected to switch between 3 different states:



Switching to any of these modes can be achieved with the three buttons on the front of the IPM test module and appears on the LCD display. Along with displaying the current state based on the feedback sensors, the actual feedback signals are output on 4 BNC connectors for recording or viewing on an oscilloscope. The IPM test module comes with a wall plug power adaptor and custom cable sets are available.

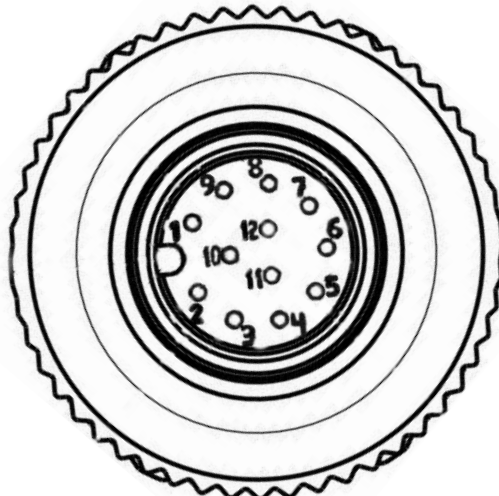
Novellus Engineering Services Inc. 44800 Helm Street Plymouth, MI 48170
(734)335-7307
info@novelluseng.com

Electrical Specifications:

Signal	Minimum	Maximum
Input Voltage	+9 VDC	+16 VDC
Output Current	1 A	5 A
Operational Temperature Range	0°C	+85°C

12 Pin Signal Specifications:

Signal Name	Pin Numbers	Signal Description
B3 +	1	DSPL2 Ground
B3 -	2	DLPS1 Ground
B3 Right	3	Rotary PWM In
B3 Left	4	Controller Ground
B2 +	5	DLPS2 PWM Out
B2 -	6	DLPS2 +5V
B2 Right	7	DLPS1 +5V
B2 Left	8	Solenoid -
B1 +	9	Solenoid +
B1 -	10	Controller +12V
B1 Right	11	Rotary PWM Out
B1 Left	12	DLPS1 PWM Out



Dimensions LxWxH: (138x116x56)mm

