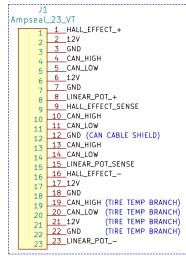


# **Electrical Ratings**

Hall Type			Digital Switch 3-Wire (Voltage Output)		
Supply Voltage <sup>1</sup>	Operate Overvoltage Protection Reverse Voltage Protection	Vdc Vdc - max. Vdc - max.	4.75 to 24 27 -25		
Output High Voltage		Vdc - min.	VDD -2 (-2 sinking output with internal pull-up)		
Output Low Voltage		Vdc - max.	0.6 @ 20mA		
Output Current (continuously on Current Consumption Current Consumption	)	mA - max. mA - max. mA - max.	20 1 10.5		
Current Consumption		mA - min. mA - max.	1 10.5		
Switching Speed		KHz-max.	15		
Temperature	Operating	°C	-40 to +125		

## EXTERNAL WIRE CONNECTIONS



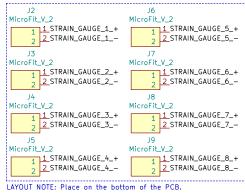
LAYOUT NOTE: Place on the bottom of the PCB. LAYOUT NOTE: Make sure positive locking feature is not facing the ground.

NOTE: Datasheet calls out max panel thickness of 5mm.

ACCEPTS SCREW SIZE [Ø0.99 (2.50mm)] SELF TAPPING THREAD FORMING SCREW TO BE DRIVEN AT 0.6-0.8 N-m



#### EXTERNAL CONNECTIONS TO STRAIN GAUGES



LAYOUT NOTE: Ensure room for mating and unmating including

space for locking feature.

NOTE: Waterproofing considerations for these connectors.



#### TO WHEEL SPEED SENSING

#### TO SUSPENSION TRAVEL SENSING

J11 MM_M_VT_08 1 12V 2 2 GND 3 3 CAN_HIGH 4 4 CAN_LOW 5 5 LINEAR_POT_+ 6 6 LINEAR_POT_SENSE 7 7 LINEAR_POT_— 8 BGND	TO SUSPENSION TRAVEL SEN
	MM_M_VT_08 1 1.12V 2 2.GND 3 3.CAN_HIGH 4 4.CAN_LOW 5 5.LINEAR_POT_+ 6 6.LINEAR_POT_SEN 7 7.LINEAR_POT

LAYOUT NOTE: Consider board heights for Micro-MaTch spacing.

#### TO SUSPENSION STRAIN SENSING



Generic Micro-MaTch male header.

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### Olin Electric Motorsports

Sheet: /

File: sensing\_module\_interface.sch

Title: Sens	sing Module Interface	
Size: A4	Date: 2019-11-13	
KiCad E.D.A.	kicad 5.1.4-e60b26684ubuntu18.04.1	

Rev: 1 ld: 1/1