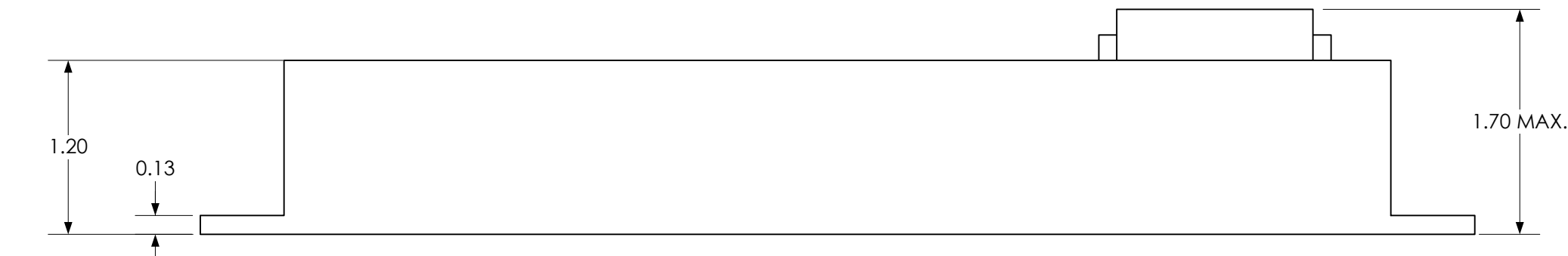


REVISIONS				
REV	DATE	ECN	DESCRIPTION	APVD
A	12/17/21	13944E	RELEASE TO PRODUCTION	JC

# Overview: Module Physical Dimensions

J2  
 DEUTSCH DT15-12PB-B016 OR EQUIVALENT  
 MATES WITH  
 DEUTSCH DT06-12SB-B016 PLUG  
 (XXXX = ALL MODIFICATIONS)  
 OR EQUIVALENT.

J1  
 DEUTSCH DT15-12PA-B016 OR EQUIVALENT  
 MATES WITH  
 DEUTSCH DT06-12SA-B016 PLUG  
 (XXXX = ALL MODIFICATIONS)  
 OR EQUIVALENT.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TOLERANCES ARE

TWO PLACE DECIMAL	THREE PLACE DECIMAL	ANGLES
+/- 0.05	+/- 0.020	+/-

<b>MARLIN</b> TECHNOLOGIES INC.			
TITLE OUTLINE, 505030 MFLEX 8IN/8OUT CAN MODULE			
SIZE <b>B</b>	DRAWING NUMBER <b>013946</b>	TYPE <b>O</b>	REV <b>A</b>
DRAWN M. PETZKE		DATE 02/07/22	SHEET 1 OF 3

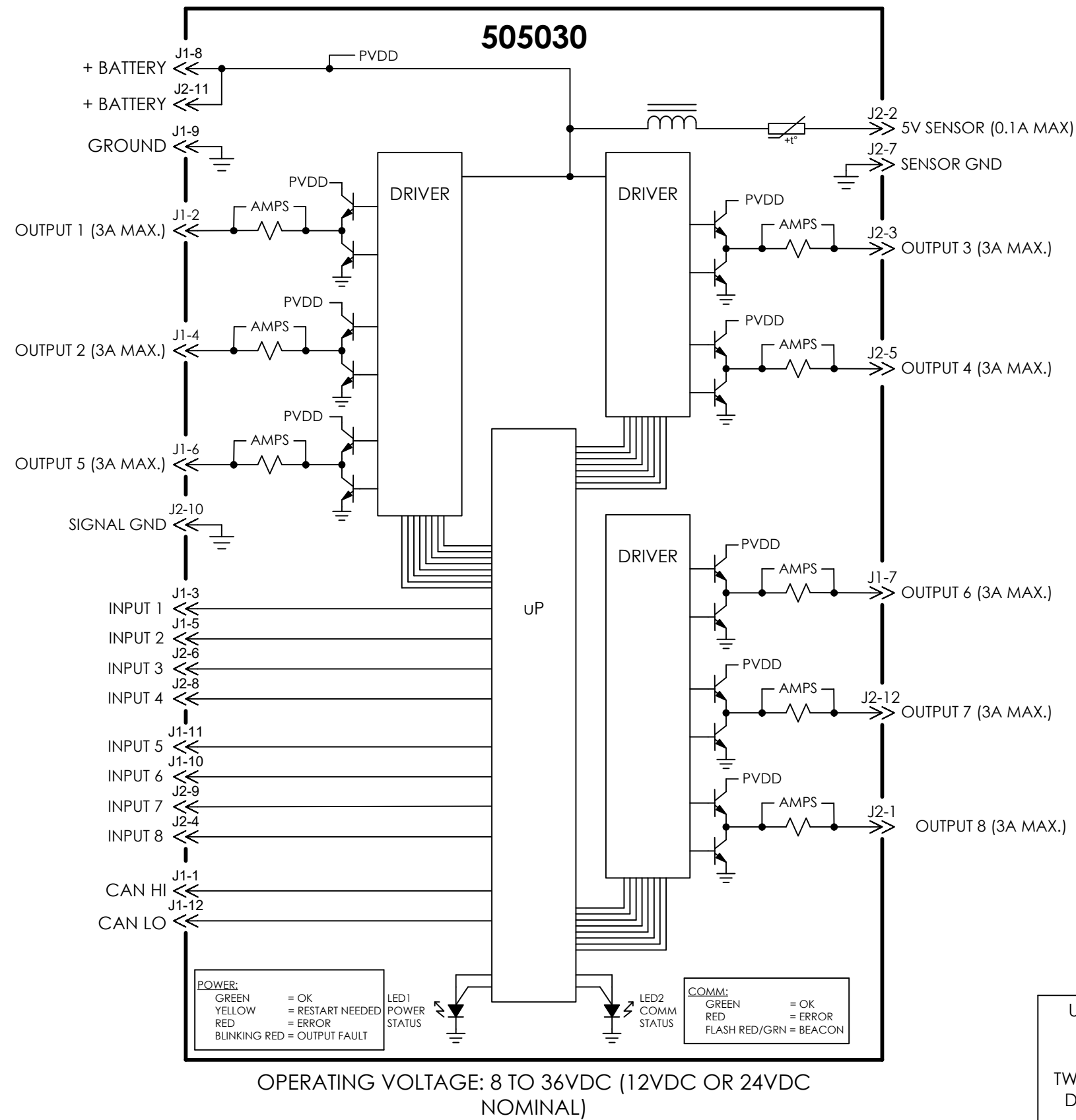
DO NOT SCALE DRAWING

CHECKED J. COOPER	DATE 06/27/23
APPROVED J. COOPER	DATE 06/27/23

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# Overview: Module Block Diagram



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+/- 0.05	+/- 0.020	+/-

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APPROVED J. COOPER	DATE 06/27/23

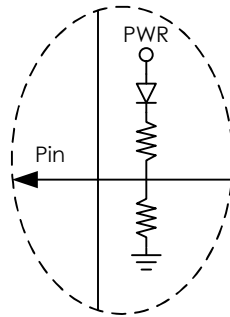
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SIZE <b>B</b>	DRAWING NUMBER <b>013946</b>	TYPE <b>O</b>	REV <b>A</b>
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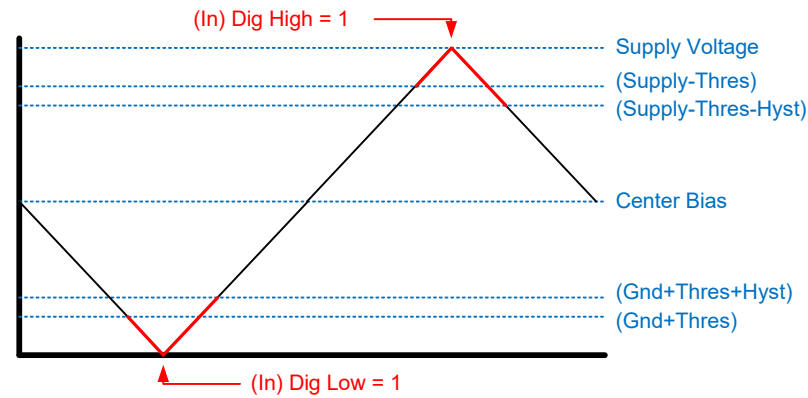
# Overview: Input/Output Configurations

REVISIONS				
REV	DATE	ECN	DESCRIPTION	APVD
A	12/17/21	13944E	RELEASE TO PRODUCTION	JC

## (\* NOTE: Analog Input Circuit and Best Practices)



- Generated Analog Signal
- Analog Potentiometer (5k or less)
- On/Off Switch to Power (No Pull-Down)
- On/Off Switch to Gnd (No Pull-Up)
- 3-way Switch to Pwr/Gnd (No PU/PD)
- Frequency Input ( 0-5V, LS\_ Output )
- PWM Duty Cycle ( 0-5V, LS\_ Output )
- Quadrature Input ( 0-5V, LS\_ Output )

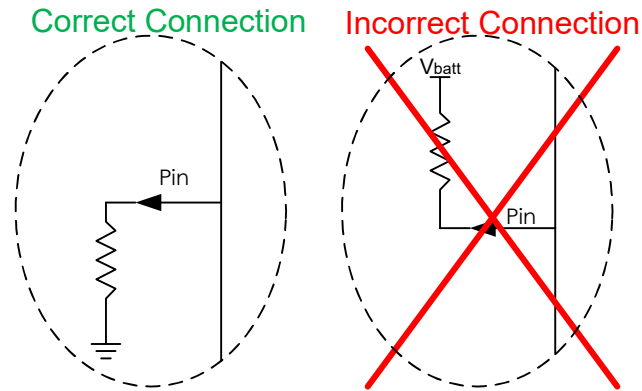


## Input/Output Configuration Options

Input Type	#1	#2	#3	#4	#5	#6	#7	#8
Digital Active High - Thres	•	•	•	•	•	•	•	•
Digital Active Low - Thres	•	•	•	•	•	•	•	•
Analog 0-36V	•	•	•	•	•	•	•	•
Frequency	•	•	•	•				
PWM Duty Cycle	•	•	•	•				
Resistance	•	•	•	•				
Current (0-20mA)	•	•	•	•				
Quadrature – X1	•*	•*	•*	•*	•*	•*	•*	
Quadrature – X2	•*	•*	•*	•*	•*	•*	•*	
Quadrature – X4	•*	•*	•*	•*	•*	•*	•*	
Quadrature – B		•	•	•	•	•	•	•

\*When configured as Quadrature, The next adjacent input is automatically configured as the channel B input. (i.e. If In1 = QuadX\_, then In2 = Quad Channel B)

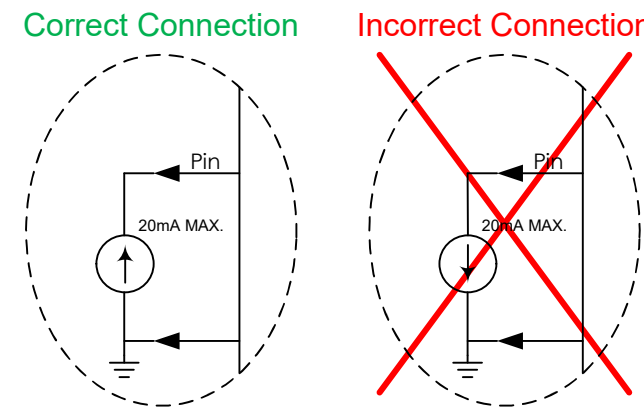
## (\* NOTE: Resistance Input Circuit and Best Practices)



- An improper resistor connection is likely to damage the module.

Output Type	#1	#2	#3	#4	#5	#6	#7	#8
00 - Disabled	•	•	•	•	•	•	•	•
01 – Active HI Digital	•	•	•	•	•	•	•	•
02 – Active LO Digital	•	•	•	•	•	•	•	•
03 – HS PWM Closed Loop	•	•	•	•	•	•	•	•
04 – HS PWM Open Loop	•	•	•	•	•	•	•	•
03 – LS PWM Closed Loop	•	•	•	•	•	•	•	•
04 – LS PWM Open Loop	•	•	•	•	•	•	•	•

## (\* NOTE: Current Input Circuit and Best Practices)



- Voltage on the input Pin must not exceed 6V when configured for current input.
- The input Pin when configured for current sensing is current sink and must be wired as such. Improper wiring can damage the module.

In/Out Tolerances (@25C)	
Analog Input	+/-50mV
Resistance Input	+/-2%
Current Input (0-20mA)	+/-50uA
Current Control Output	+/-50mA

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TWO PLACE DECIMAL	THREE PLACE DECIMAL	ANGLES
+/- 0.05	+/- 0.020	+/-

DO NOT SCALE DRAWING

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DRAWN M. PETZKE	DATE 02/07/22	SHEET 3 OF 3	

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