

3 axis Mounting Board

Accessory for Mercury motion controller

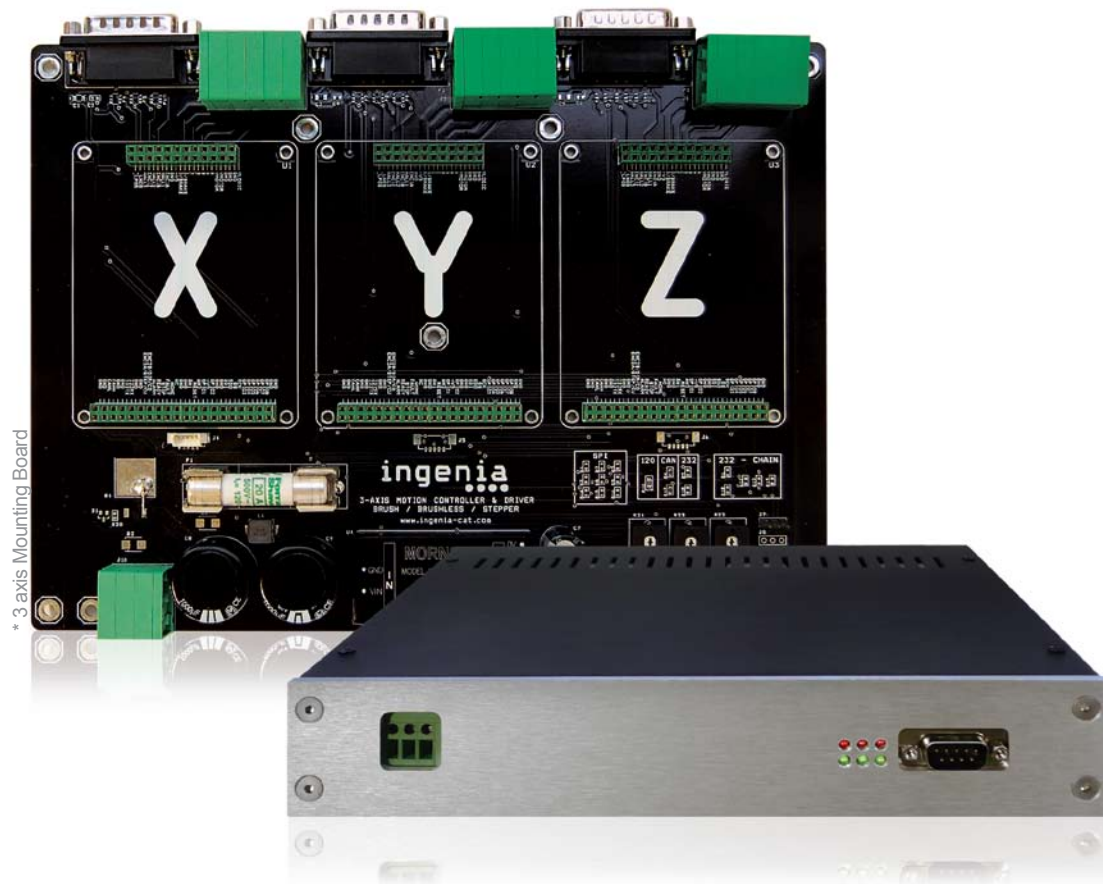


Overview

3 axis Mounting Board is a passive board designed to plug up to three Mercury motion controllers in order to easily conform three degrees of freedom systems.

It has standard PCB terminal blocks for both input power and motor phases, three DB15 connectors for motor signal feedback, and one DB9 connector for the communication port, thus allowing a fast wiring and start up procedure.

The board optionally includes a DC-DC power regulator in order to power the Mercury motion controllers by using a single supply.



Specifications

Mating connectors

Connectors	Description	Type	Manufacturer	Mfr. order code	Pin count
P1	Motor X feedback	DB15	Tyco	5-0747909-2	15
P2	Motor Y feedback	DB15	Tyco	5-0747909-2	15
P3	Motor Z feedback	DB15	Tyco	5-0747909-2	15
P4	CAN bus	DB9	Tyco	5-0747905-2	9

*Optionally supplied with a box

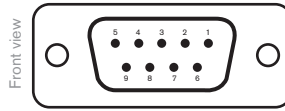
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Male DB9 pinout (communications)

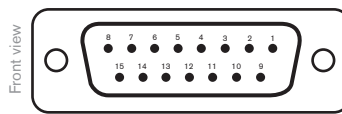
Pin	Type	DB9 pinout
CANL	Bidirectional	2
CANGND	-	3
CANH	Bidirectional	7



Connection pinout for the CAN interface of 3 axis Mounting Board.

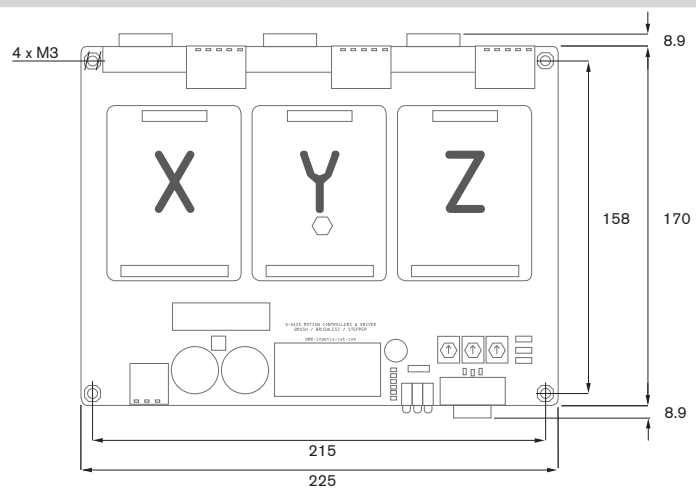
Male DB15 pinout (motor X,Y,Z feedback)

Pin	Type	DB15 pinout
HALL1	Input	1
HALL3	Input	2
ENC1B	Input	3
+V5	Power output	4
_LPOS	Input	5
_HOME	Input	6
AN2	Input	7
GND	-	8
HALL2	Input	9
ENC1A	Input	10
ENC1Z	Input	11
+V12	Power output	12
_LNEG	Input	13
GND	-	14
+V5	Power output	15



Connection pinout for the motor feedback of 3 axis Mounting Board.

2D drawings (mm)



DC-DC assembly options

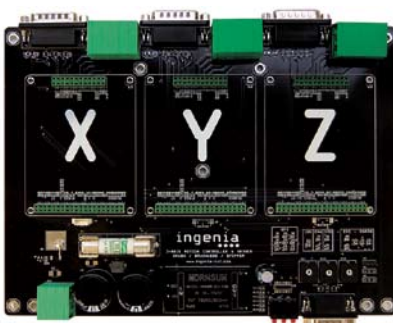
- None (default)
- DC-DC 18V to 36V
- DC-DC 36V to 72V

Assembly

3 axis Mounting Board

3 Mercury motion controllers

Assembly



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