

DIMENSIONS: existing board has single hole mount with,
X1=-1.0, X2=.70, Y1=.9, Y2=-.25 all referenced from hole.
(old Board X by Y = 1.7" by 1.125")

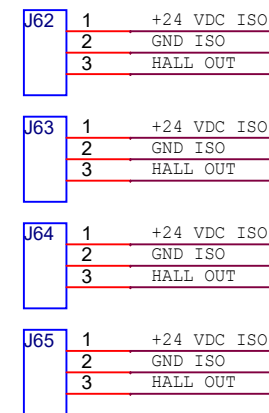
new board referenced from same hole can be a Maximum of.
X1=-1.5, X2=1.5, Y1=1.5, Y2=-.25 all referenced from same hole.
(new Board Max X by Y = 3.0" by 1.75")

Desire is Y dimension along row of 3 pin headers,
Headers along Y dimension will take up 1.5 inch, leaving .25 in
X dimension max of 3.0 inch can likely be made around 2.25 inch

Please add a second mounting hole roughly symmetric to the
one and along the Y direction if possible but not critical.
Hole diameter not certain - likely for a #4
screw so make fit #6 screw.

Note: qty 4 of 3 pin headers,
spaced so mating plugs can
be moved around for testing
Phoenix part 1881451
digikey 277-1442-ND

connection to Sensor puck
at prop via oil filled parflex
Mating connector Digikey 277-1431-ND, phoenix 1881338



GND_ISO

TP1

GND_ISO

+24VDC_ISO

DC/DC CONVERTER:
Mouser 209-ITW2424SA

DC/DC Converter 24 - 24 V 1W
digikey 1470-2654-5-ND

CAP 220 pF/3 kV
digikey 399-7252-1-ND

CAP 4.7 uf/50V
445-5980-1-ND

U5 ITW2424SA

OPTOISOLATOR 3.75KV 4CH TRANS 16-SO
TLP293-4(MBGBTPE)
digikey TLP293-4(MBGBTPECT-ND

U3

R7 1.33k

R8 1.33k

R9 1.33k

R10 1.33k

R3 2.74k

R4 2.74k

R5 2.74k

R6 2.74k

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