

JOYSTICK ADDITIONAL FEATURES OPTION

[ ] BLANK INDICATES NO OPTIONS TO JOYSTICK

ORDERING INFORMATION:

M 2 0 0 0 [ ] - N [ ] - K [ ]

OPTIONS (VOLTAGE INPUT/OUTPUT)

NOB OPTIONS (SEE PAGE 2 OF 2)

JOYSTICK OPTIONS	
D	LOW TEMPERATURE RANGE (-40°C TO +80°C)
Z	CONFORMAL COATING ON PCB
RF	CONDUCTIVE BOOT AND FERRITE BEAD
G	MAXIMUM COMPRESSION SPRING
N	NEUTRAL SWITCH AVAILABLE ON +5V MODELS ONLY WITHOUT PUSH BUTTON SWITCH NOB OPTIONS

	INPUT	V REF @ CENTER POSITION	OUTPUT
0	+12V	+6V	+3V TO +9V
2	±5V	0V	±5V
3		RESERVED	
4	+5V	+2.5 V	+0.5V TO +4.5 V
5	+5V	+2.5V	+0V TO +5V
6	±10V	0V	±10V
7	+10V	+5V	+1V TO +9V

CUSTOMER CABLE NOTES

- 1.) Cable must be shielded. with conductors between 28 awg. to 20 awg, and a maximum outside diameter of 0.25".
- 2.) Cable lengths recommend 10 ft. or less; otherwise analog filtering may be required.
- 3.) v ref. (pin 4) should only be used with short cables
- 4.) Soldered connections should have shrink tubing over pins or backshell should be filled with rtv.

**CTI ELECTRONICS CORPORATION**  
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NEMA 4X(IP66)  
HAND HELD ANALOG JOYSTICK  
M2000-NX SERIES

**761797**

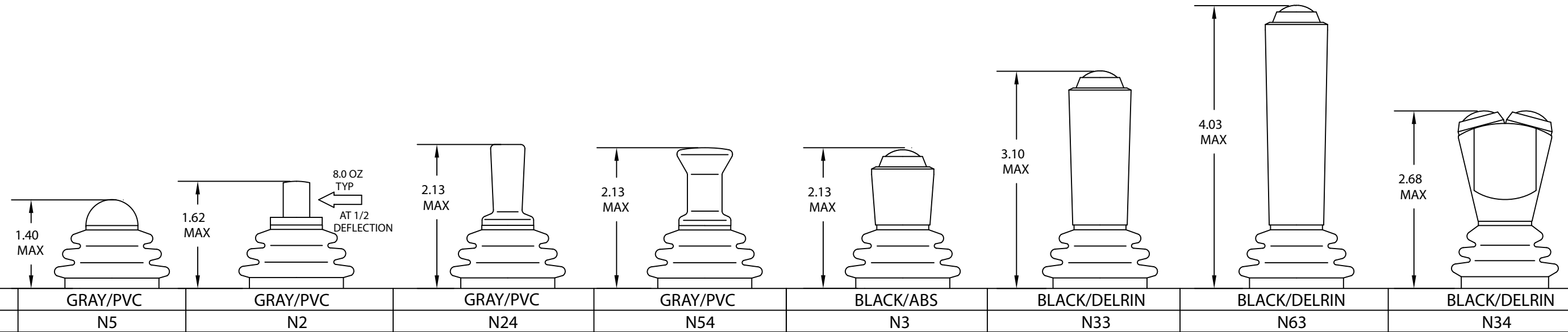
APPROVED

SHEET 1 OF 2

DATE 03-08-12

REV. **D**

DRAWN BY  
PSB



**NOTE**

1. HEIGHT SHOWN IS FROM MOUNTING SURFACE ON NEOPRENE BOOT, REDUCE BY THE PANEL THICKNESS DIMENSION APPROXIMATE .05" WHEN INSTALLED IN AN ENCLOSURE AS SHOWN ON SHEET 1 OF 2
2. REFERENCE INDIVIDUAL JOYSTICK SPECIFICATION DRAWINGS FOR ADDITIONAL INFORMATION

**PIN-OUT GUIDE**

KNOB OPTIONS	N5 N2 N24 N54	N3 N33 N63	N34	N5 N2 N24 N54 N3 N33 N63 N34			
VOLTAGE OPTIONS	K4 K5	K4 K5	K4 K5	K7	K0	K2	K6
PIN							
1	+5V	+5V	+5V	+10V	+12V	+5V	+10V
2	COMMON	COMMON	COMMON	COMMON	COMMON	-5V	-10V
3	X OUT	X OUT	X OUT	X OUT	X OUT	X OUT	X OUT
4	V REF	V REF	V REF	V REF	V REF	COMMON	COMMON
5	Y OUT	Y OUT	Y OUT	Y OUT	Y OUT	Y OUT	Y OUT
6	OPTIONAL NEUTRAL SWITCH	PUSH BUTTON SWITCH	LEFT PUSH BUTTON	(LEFT) PUSH BUTTON SWITCH			
7			RIGHT PUSH BUTTON	RIGHT PUSH BUTTON SWITCH N34 ONLY			
8	SHIELD	SHIELD	SHIELD	SHIELD			

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