GS NORTH AMERICA

Z Axis Rotational Proportional Handle

OVERVIEW

With the development of the Rotational Proportional Z Axis control, an operator has fully functional movement of their machine with the circular control of their wrist.

Dual Hall Effect, non-contacting sensing elements, allow for exceptional life span. Redundant Hall Effect Sensors ensure reliability and safety in the harshest of environments.

All sensors are fully potted for complete elimination of the elements. The sensor is ratiometric from a 5 Volt supply allowing the Z Axis control to be fully operational on *any* machine. The ratiometric signal allows for continuous monitoring of the Z Axis and error indication upon loss of signal or ground wires.

The Z Axis is available in Spring-Return to Center or Friction Held in order to allow for fixed Z rotation, even if the operator's hand is removed from the joystick.

Z AXIS

Mfg#-GS10128-001 with Spring Return to Center

Mfg#-GS10128-002 with Friction and Center Detent

Controlling Range of Operating Level
+/- 30° from Center

Operating Force
12 inch-oz. Rotational Torque

Maximum Torque at Stop
50 Ft Lbs

Operating Temperature Range
-30° C to +60° C (-22° F to +140° F)

Shock
5 Gs

Life Expectancy
Approximately 3 Million Cycles

Materials
6061-T6 Anodized Aluminum

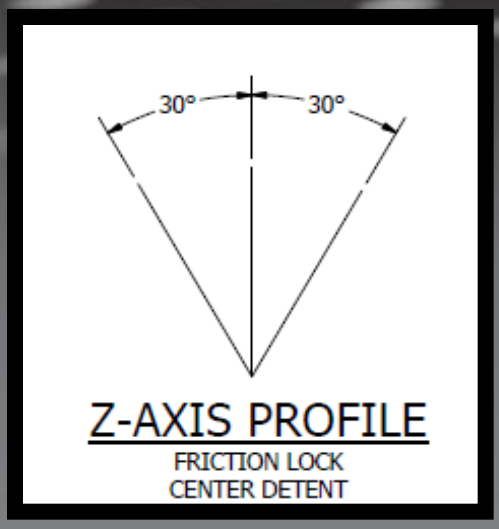
Supply Voltage
5.0VDC +/- 0.1VDC

Output (Ratiometric)
0.5-4.5VDC for -30° to +30°

Linearity
+/- 3%

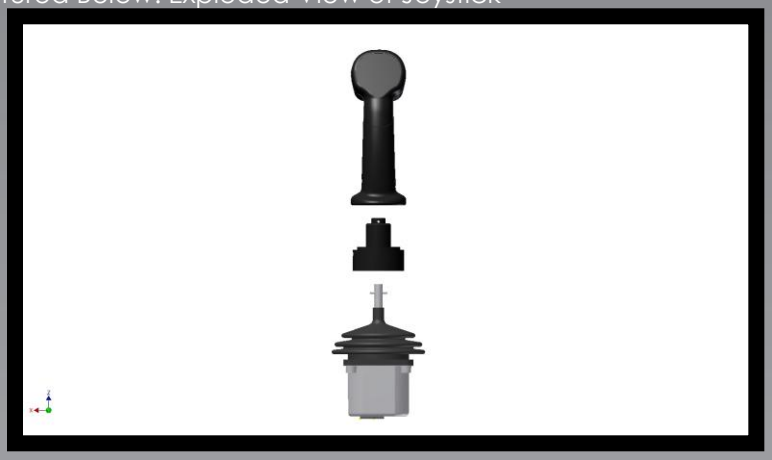
Hysteresis
+/- 0.5%

Z Axis



Joystick Base Diameters:
10mm,12mm, & 14mm
Joystick Handle Diameters:
¾ in or 1in (dependent of joystick selected)

Pictured Below: Exploded View of Joystick



!!!!!!!!!!!!WARNING!!!!!!!!!!!!

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCT AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE

This document and other information from GS North America LLC its subsidiaries and authorized distributors provide product and/or system options for further investigations by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure, and review the information concerning the products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by GS North America LLC and its subsidiaries at any time without notice

GS North America, LLC
5050 S. Towne Drive
New Berlin, WI 53131
800.261.8735