XL-VNSO JOYSTICK

The XL-VNSO joystick shares the same rugged construction and long-life as the standard VNSO, but in a more compact size. This high-duty joystick is often used in applications with space constraints that still require heavy duty construction and operation. Unlike the VNSO, the XL-VNSO can be configured with microswitches, hall-effect and PWM output types.



SPECIFICATIONS

GENERAL DATA

# of Axis	Single, Dual or Three* *Third axis is achieved via a twist handle function or thumbwheel.
Output Options	Potentiometer, Microswitches, PWM & CAN
Joystick Action	Spring Return
Handle Travel	+/- 36 degrees each axis (potentiometer) +/- 20 degrees each axis (bang/bang and hall-effect)
Gate	Open or Cross
Handle Compatibility	Standard Handles, Round Ball, Mechanical Interlock, FG-3, FG-4, FG-5, RH, RHS, BH, MG1, MG2, MG13, MG9 / MG25, MG27, G56
Life	20 million cycles
Materials	Aluminum body and nickel chronium yoke.
Est. Shipping Weight	5 lbs.
Est. Shipping Dimensions	13 in. x 10 in. x 8 in.

MOUNTING DATA

Mounting Style	Panel (from below)
Mounting Footprint	3.78" x 3.78" See literature for additional mounting specifications

ENVIRONMENTAL DATA

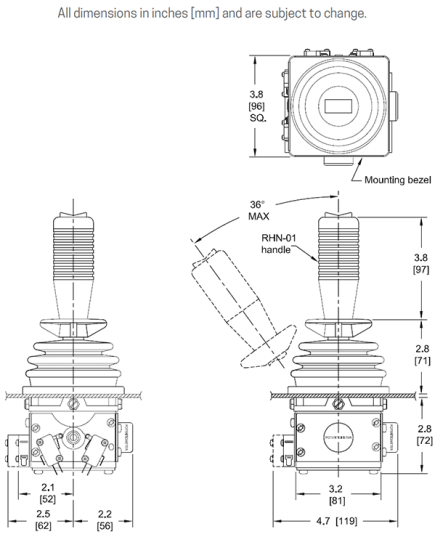
IP Rating	IP54
Operating Temperature	-13 to +158 degrees F [-25 to +70 degrees C]
Storage Temperature	-40 to +158 degrees F [-40 to +70 degrees C]

ELECTRICAL DATA

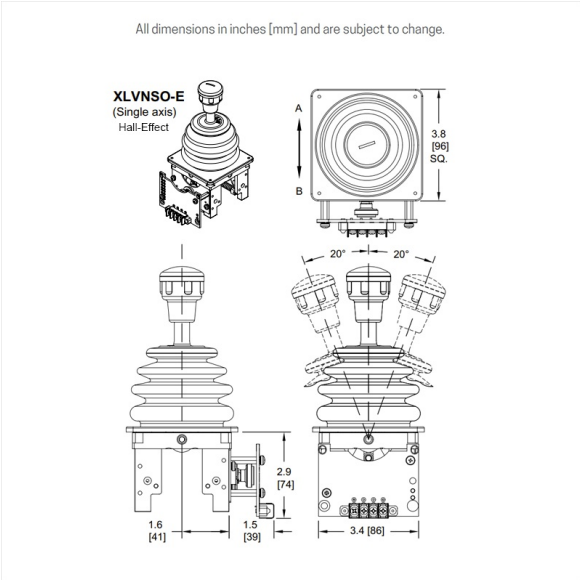
Contact Specifications	Switch Type: SPDT (Form C) V Series Microswitches Max. Number: Up to 3 per axis Current Rating (AC): 11A Voltage Rating (AC): 250 Termination: .187" x .20" male quick connect Max. Wire Size: 18 AWG
Can Specifications	CANOpen, J1939 or basic CAN protocols 4 analog inputs 8 digital inputs 2 digital outputs See a complete listing of CANbus technical data in ESS408 CAN Based Interface Module Board literature
Additional Specifications	Reference product literature for additional specifications

Technical Drawings

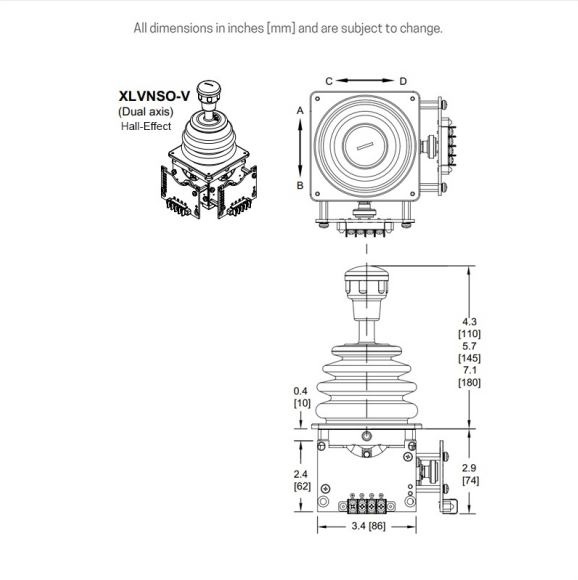
Dimensional



Overall dimensions with potentiometer and microswitches. Shown with RH rocker handle.

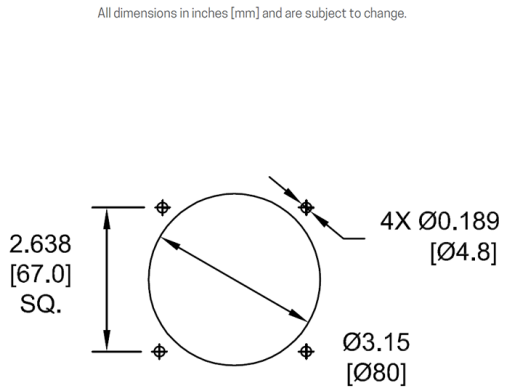


XL-VNSO-E single axis dimensions with hall-effect ouput. Shown with standard 2 piece handle.



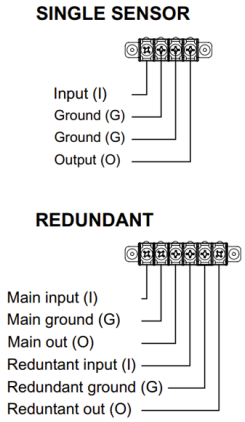
XL-VNSO-V dual axis dimensions with hall-effect ouput. Shown with standard 2 piece handle.

Mounting



XL-VNSO Mounting details

Wiring



XL-VNSO hall-effect wiring details