



AVID EAZICAL II ELECTRO-PNEUMATIC POSITIONERS

CERTIFIED TO NEC, CEC, ATEX, IECEX STANDARDS TO MEET INTRINSICALLY SAFE AND NON-INCENDIVE OPTIONS

The EAZICAL II is a next generation electro-pneumatic positioner that delivers improved levels of reliability and modulating position control via simple auto calibration.



GENERAL APPLICATION

The EAZICAL II represents the next phase in AVID's mission to present a more effective and economical electro-pneumatic positioner solution. Designed to complete calibration in just minutes and independently adjust the positioner, the EAZICAL II performs position measuring by an off-set, Hall Effect Sensor.

TECHNICAL SPECIFICATION

4 - 20mA (analogue) Input current

Voltage drop 9 volts

15 to 45 psi (low), 40 to 120 psi (high) Supply pressure

0.5% of span Resolution 0.4% of span Hysteresis Repeatability 0.4% of span Thermal Coefficient

16.2 scfm (standard) & 40 scfm (high) @ 90 psig supply Output flow rates 0.08 scfm @ 90 psi (high) 0.03 scfm @ 20 psi (low) Air consumption

Gain Adjustable

Air connection ports 1/4" BSP / NPT (standard) 3/8" BSP / NPT (high) BSP / NPT

FEATURES

- Simple auto calibration is completed in minutes and results are displayed on LCD display, facilitating setup and commissioning.
- Limit switch options allow for more flexibility in applications.
- Includes as standard a 4 20mA feedback position transmitter for verification that the valve package is tracking correctly.
- Non-contact Hall Effect sensor eliminates geared mechanical potentiometer for extended product life, reduced maintenance and improved performance under vibration.
- Every unit suitable for single acting and double acting.
- Globally certified

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TECHNICAL DATA

Agency approvals Intrinsically Safe

ATEX and IECEx

(Engineered Resin or Stainless Steel enclosure)

Ex ia IIC T4 Ga Ta = -40°C to +85°C

(Aluminum enclosure)

II 1G II 2D

Ex ia IIC T4 Ga Ex tb IIIC T87 Db Ta = -40°C to +85°C

North America (Stainless Steel or Resin)

> Class I, Div. 1, Groups A, B, C & D, T4; Class I, Zone O, AEx/Ex ia IIC T4 Ga;

Type 4X, IP 65

Class I, Div. 2, Groups A, B, C & D; T4;

Type 4X, IP 65 Ta = -40°C to +85°C

(Aluminum Only)

Class I, Div. 1, Groups A, B, C & D, T4; Class II, Div. 1, Groups E, F & G;

Class III:

Class I, Zone O, AEx/Ex ia IIC T4 Ga; Class II, Zone 21, AEx/Ex tb IIIC T87 Db;

Type 4X, IP 65 Ta = -40°C to +85°C

Non-Incendive Class I, Div. 2, Groups A, B, C & D, T4;

Class II, Div. 2, Groups F & G;

Class III; Type 4X, IP 65 Ta = -40°C to +85°C

Note: The switch options are approved for hazardous locations. (Mech. Switch option not for use in Division 2 North America).

MATERIAL OF CONSTRUCTION

Housing / Cover Engineered resin, aluminum & CF8M (316) stainless steel

Manifold Anodized aluminum or stainless steel

Conduit M20, M25, 3/4" NPT

Shaft Stainless steel

Stainless steel Hardware

SWITCH OPTIONS



T-Switch hermetically sealed proximity switch

Hermetically-sealed proximity switches with rhodium contacts for use with low power I/O's to provide longer contact life.



SPDT mechanical switch V3

A V3 (single pole double throw) mechanical switch (Form C).

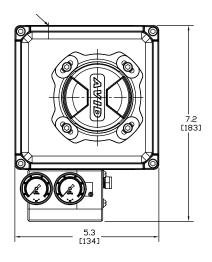


P+F NJ2-V3-N inductive proximity sensor

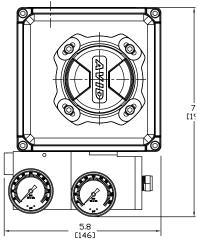
Intrinsically Safe

A solid state inductive proximity sensor which is available in NAMUR output. It is ideal for use in devices within potentially explosive atmospheres.

GA DRAWING SIMPLE CALIBRATION

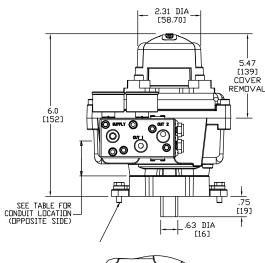


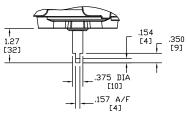
STD FLOW MANIFOLD (1/4" NPT OR BSP PORTS)



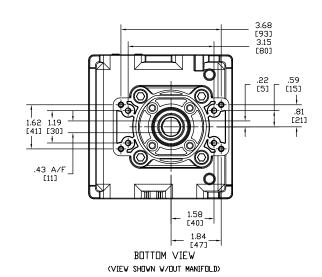
HI FLOW MANIFOLD (3/8" NPT OR BSP PORTS)

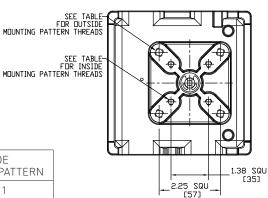
- Easy to use auto-calibration via button
- assumes Low is 4mA and High is 20mA
- Manual Low/High Calibration with 'value' options for closed and open positions
- Full Manual Calibration accommodating:
 - o Forward Gain/Reverse Gain
 - o Drop Off
 - o Zero Adjust
 - o Span Adjust
 - o Forward or Reverse Acting
 - o Long Cal For larger actuators to avoid timeout of calibration
 - o Split Range Applications





OPTIONAL NAMUR OUTPUT





BOTTOM VIEW

(VIEW SHOWN W/OUT MANIFOLD AND MOUNTING BRACKET)

MOUNTING OPTIONS

CONDUIT ENTRY	CONDUIT LOCATION	OUTSIDE MOUNTING PATTERN	INSIDE MOUNTING PATTERN
3/4"-14 NPT	1.39	5/16"-18	M6 x 1
M25 x 1.5	1.39	M8 x 1.25	M6 x 1
M20 x 1.5	1.39	M8 x 1.25	M6 x 1

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POSITIONER SELECTION GUIDE



WESTLOCK CONTROLS

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