

# K10

## Electro-Pneumatic Positioner with Keypad & Remote Infrared AutoCal Calibration

The model K10 electro-pneumatic positioner is the first of its kind having calibration either by a simple AutoCal push of a button or remotely by implementing an infrared signal from a handheld. The K10 positioner brings a new level of efficiency to operating personnel responsible for the calibration of I/P positioners.



### FEATURES

- Fast calibration through a simple pushbutton AutoCal procedure or remote calibration by utilizing an infrared handheld.
- Certified General Purpose, Nonincendive or Explosionproof or Intrinsically Safe.
- 2 year warranty.
- Beacon visual position monitor.
- Integrated position sensor capability.
- Corrosion resistant engineered resin Nema 4, 4x enclosure standard. (Explosionproof unit: Aluminum)
- Optional high flow transducer.

# K10

**Certification**

FM Approved  
CSA Certified

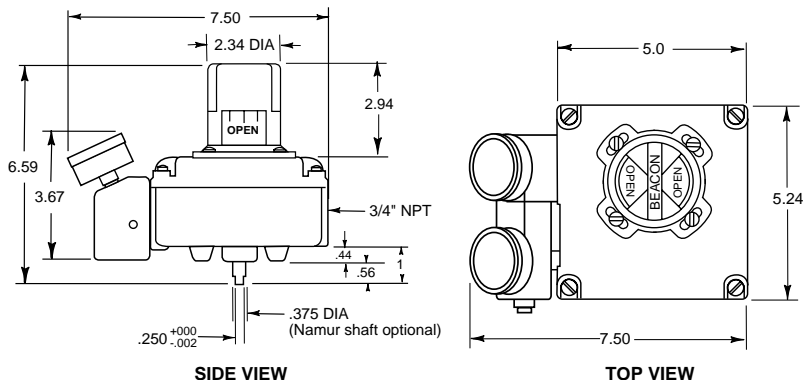


Nema 4, 4x  
**Nonincendive:**  
Class I, Groups A, B, C & D  
Class II, Groups F & G,  
Division 2

**Intrinsically Safe:**  
Class I, II, III  
Groups A - G; Division 1  
(must be used with an  
approved barrier)

**Explosionproof:**  
Class I, Groups C & D  
Class II, Groups E, F & G  
Divisions 1 & 2

**Dimensions (inches)**



**Materials of Construction (N/I & I/S)**

Housing	Engineered Resin
Cover	Clear Engineered Resin
Manifold	Anodized Aluminum
Conduit	Stainless 3/4" NPT
Shaft	Stainless Steel
Hardware	Stainless Steel

**Materials of Construction (Explosionproof)**

Housing	Aluminum
Cover	Aluminum
Manifold	Aluminum (anodized)
Conduit	3/4" NPT
Shaft	Stainless Steel
Hardware	Stainless Steel

**Micro-Switch V3**

AMPS	SPDT (V3)	
	VAC	VDC
15	125	
15	250	
10		24
0.50		125
0.25		125

**Operating Specifications**

Input current	4 to 20 mA (analog)
Voltage drop	9 volts
Supply air pressure	(low) 15 to 45 psi, (high) 40 to 120 psi
Resolution	0.2% of span
Linearity	±1% of span
Hysteresis	0.2% of span
Repeatability	0.2% of span
Thermal coefficient	2%/100°C
Output flow rates	(low) 8.0 scfm @ 25 psi, (high) 16.2 scfm @ 90 psi
Air consumption	(low) .30 scfm @ 25 psi, (high) .71 scfm @ 90 psi
Gain	Electronically adjustable
Air Connection Ports	1/4" NPT

**P+F NJ2-V3 Sensors Proximity Type (Solid State), I.S., PTB, FM, CSA, CE**

Sensing Range	3 mm
Electrical Version	D.C. voltage 2 wire in accordance with DIN19234 (NAMUR)
Hysteresis	Approx. 5%
Switching Frequency	1.5KHz
Nominal Voltage	8 VDC
Input Voltage Range	5-25 VDC
Output/Current	Cam Trigger Present ≤1mA
Consumption	Cam Trigger Absent ≥3mA (15mA max)
Operating Temp.	-25°C + 100°C

**ORDERING GUIDE**

K10	Area Classification	Cover (nonincendive)	Mounting	Supply Pressure	Manifold	Position Sensor
 K10 	Nema 4, 4x <b>Nonincendive</b> Class I, Grps. A, B, C & D Class II, Grps. F & G; Div. 2 <b>N</b>	Screws <b>A</b>	Standard <b>S</b>	High Pressure (40 to 120 PSI) <b>H</b>	Aluminum <b>0</b>	No Switches <b>0</b>
	<b>Intrinsically Safe</b> Class I, II, III; Grps. A - G, Div.1 (must be used with an approved barrier) <b>I</b>		Namur <b>N</b>	Low Pressure (15 to 45 PSI) <b>L</b>	303 Stainless <b>3</b>	1 Mech. Switch <b>A</b>
	<b>Explosionproof</b> Class I, Grps. C & D; Class II, Grps. E, F, G; Div. 1 & 2 <b>X</b>				316 Stainless <b>6</b>	2 Mech. Switches <b>B</b>
						1 Inductive Proximity Sensor <b>C</b>
						2 Inductive Proximity Sensor <b>D</b>
						4-20 mA Position Transmitter <b>E</b>

Infrared Handheld for K10 Positioner **K10HH**