

SRI986 Electro-Pneumatic Positioner



The SRI986 Positioner is designed to control pneumatic valve actuators from control systems and electrical controllers with electric control signals.

It is used to reduce the adverse effects of valve friction, for higher thrust and shorter positioning time.

It offers an easy adjustment by two mechanical screws.

For complete specification, refer to Product Specification Sheet PSS EVE0102 A-(en)

- Independent adjustment of stroke range and zero
- Adjustable amplification and damping
- Split range up to 3-fold possible
- Input Signal from 0 to 20 mA or 4 to 20 mA
- Supply pressure up to 6 bar (90 psig)
- Single or double acting
- Low vibration effect in all directions
- Mounting on linear actuators according to NAMUR: IEC 534 Part 6
Stroke range 8 ... 100 mm (0.3 ... 4 in)
(larger strokes on request)
- Mounting on rotary actuators acc. to VDI/VDE 3845 for rotation angles up to 120°
 - Angular range
 - linear 30 ° ... 120 °
 - equal percentage 90 °; linear from 70 °
- Protection class IP54 or IP65
- Explosion protection:
 - II 2 G EEx i (intrinsic safety) according to ATEX
 - Intrinsic safety according to FM and CSA
- Ambient temperature * -40 ... 80°C (-40 ... 176°F)
- EMC in accordance with the international standards and laws (CE)
- Additional Inputs / outputs (optional):
 - Position feedback 4 to 20 mA
 - Built-in independent inductive limit switches (2-/3-wire) or micro switches
- Accessories
 - Booster relay to minimize stroke time
 - Gauge Manifold

*) dependent on Ambient Temperature classes

Input

Signal range 0 to 20 mA / 4 to 20 mA
Input resistance < 200 Ohms at 20 °C

Supply

Supply air pressure 1.4 ... 6 bar (20 ... 90 psig)
Supply air. free of oil, dust, water
according to IEC 654-2

Pneumatic connection

Female threads G 1/8 acc. to ISO 228

Response characteristic

Amplification adjustable
Sensitivity < 0.1 % F.S.
Non-linearity (terminal
based adjustment) < 1.0 % F.S.
Hysteresis < 0.3 % F.S.
Supply air dependency. < 0.3 % / 0.1 bar (1.5 psi)
Temperature effect. < 0.5 % / 10 K
Mechanical vibration
10 - 60 Hz up to 0.14 mm,
60 - 500 Hz up to 2 g < 0.25 % of travel span

Electro-Pneumatic Positioner		SRI986	011004				
Version							
Single Acting	-B						
Double Acting	-C						
Input							
Signal Range 4 - 20 mA	-I						
Mode of Action							
Standard Version Increasing Input Increases Output.	D						
Universal Version Set To Increasing Input Decreases Output	R						
Built-In Limit Switch/Position Transmitter							
Without.		S					
Inductive Limit Switch Three-Wire Technique, Without Explosion Protection (a)		R					
Inductive Limit Switch (Standard Version) (a)		T					
Inductive Limit Switch (Security Version) (a)		U					
Two Micro Switches, Without Explosion Protection. (a)		V					
Position Transmitter 4-20 mA (a)		F					
Cable Entry							
1/2"-14 NPT (with Adapter(s) M20x1.5 to 1/2"-14 NPT)		6					
M20 x 1.5 With One Plastic Cable Gland, Color Gray		7					
Electrical Certification: (Only Standard Device)							
II 2 G EEx ia IIC T6 according to ATEX (d)		EAA					
FM Approved For Intrinsic Safety Class I, Division 1, Groups A,B,C,D Hazardous Locations Indoors		FAA					
CSA Approved For Intrinsic Safety Class I, Division 1, Groups A,B,C,D Hazardous Locations Indoors		CAA					
GOST Approved for Intrinsic Safety (f).		GAA					
Without.		ZZZ					
Attachment Kit							
Order as Auxiliary		N					
Manifold							
Order as Auxiliary		A					
Options							
Amplifier Free Of Nonferrous Metals (a)(b)		-C					
Protection Class IP65		-F					
Signal Range 0 - 20 mA instead of 4 - 20 mA.		-I					
Designed For Auxiliary Energy Oxygen Max 6 Bar		-S					
Tag No. Labeling							
Stamped With Weather Resistant Color		-G					
Stainless Steel Label Fixed With Wire		-L					
(a) Not available with FAA & CAA (b) Only available with Version -B (d) Not available with Limit Switch Codes R, V (f) Not released							
<table border="1"> <tr> <td>Auxiliary</td> <td>see EVE9902</td> </tr> <tr> <td>Fittings</td> <td>see EOO9001</td> </tr> </table>				Auxiliary	see EVE9902	Fittings	see EOO9001
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