SRD992 Digital Positioner

- Configuration by means of local keys and LEDs
- Load 320 Ω
- Low air consumption
- Stroke 8 to 120 mm (0.3 to 4.7 inch)
- Angle range up to 95 degree
- Supply air pressure up to 6 bar (90 psig)
- Single acting or double acting
- Mechanical travel indicator
- Reverse polarity protection and interlock diode
- Autostart with self-calibration
- Self diagnostics
- Attachment to stroke actuators directly or according to IEC 534 part 6 (NAMUR)
- Attachment to rotary actuators according to VDI/VDE 3845

Additional equipments (compatible to SRD991/ SRI990):

- Two binary control inputs for 'open / close' and 'stop at last value'
- Position feedback 4-20 mA and alarm, galvanically separated
- Two limit switches, galvanically separated
- Integrated inductive limit switches, independent of device electronics

The digital Positioner SRD992 with analog input 4 to 20 mA is designed to operate pneumatic valve actuators. It offers the enhanced functionality of highly modern positioners such as Autostart for the determination of the control parameters as well as comfortable on site operation. The modular structure of the POSYS product line enables conversion to HART, FOXCOM or Fieldbus.

- Protection class IP 65 and NEMA 4X
- Explosion protection:
  EEx ia IIC T4 according to CENELEC
  or "Intrinsic safety" according to FM

Accessories (compatible to SRD991/SRI990):

- Gauge attachment for supply air and outputs
- Booster relay

Input

Two-wire system
Reverse polarity protection . . feature
Interlock diode . . . . . feature
Signal range . . . . . 4 to 20 mA
Operating range. . . . . 3.8 to 21.5 mA
Voltage . . . . . DC 8 to 48 V
Load . . . . . 320 Ω, 6.4 V at 20 mA

Supply

Supply air pressure . . . . . 1.4 to 6 bar (20 to 90 psig)
Supply air. . . . . according to IEC 654-2

Response characteristic

Sensitivity . . . . . 0.1 % of travel span
Non-linearity (terminal
based adjustment) . . . . . ≤ 0.4 % of travel span
Hysteresis . . . . . ≤ 0.3 % of travel span
Supply air dependence. . . . . ≤ 0.1 %/1 bar (15 psi)
Temperature effect. . . . . ≤ 0.3 %/10 K
Mechanical vibration
10 to 60 Hz up to 0.14 mm,
60 to 500 Hz up to 2 g . . . . . ≤ 0.25 % of travel span

For complete specification, refer to Product Specification Sheet PSS EVE0106 A-(en)

Model Codes

Digital Positioner	**SRD992**						
Version							
Single acting	-B						
Double acting	-C						
Input							
Signal range 4 - 20 mA		I					
Additional Inputs/Outputs							
without			M				
Prepared for additional In-/Outputs (a)			N				
Binary inputs (a)			B				
Two Binary outputs (a)			P				
Position feedback 4-20 mA (a)			Q				
Built-in limit switch							
without				S			
Inductive limit switch explosion protection EEx ia IIC T6 (a)(standard version)				T			
Inductive limit switch explosion protection EEx ia IIC T6 (a) (security version)				U			
Cable Entry							
PG13.5 with one plastic cable gland, color gray					2		
Electrical classification							
without						ZZZ	
EEx ia IIC T4						EA4	
FM Non-incendive for Class I, Division 2, Groups A, B, C, D, hazardous locations indoors and outdoors, NEMA 4						NFM	
FM approved for intrinsic safety Class I, Division 1, Groups A, B, C, D, hazardous locations indoors and outdoors, NEMA 4						FAA	
CSA approved for intrinsic saftey Class I, Division 1, Groups A, B, C, D, hazardous locations indoors and outdoors						CAA	
RUSSIAN intrinsically safe (b)						GAA	
Options							
Tag.No. Labeling Stamped with weather resistant color							-G
Tag.No. Labeling Stainless steel label fixed with wire							-L

Footnotes
(a) only with Electrical classification ZZZ / EA4
(b) pending

Fittings	see EOO9001
Auxiliary	see EVE9902