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Foxboro™  
by Schneider Electric

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## POSITIONERS Product Specifications

PSS EVE0108

### SRD998 Intelligent Positioner with HART Communication



*The intelligent positioner SRD998 is designed to operate pneumatic valve actuators and can be operated from control systems (e.g. the I/A Series System and Evo™), controllers or PC-based configuration and operation tools such as the FDT/DTMs VALcare™. The positioner is available with HART 7 Communication Protocol. The extra large multi-lingual full text graphical-LCD, in conjunction with the rotary selector, allows a comfortable and easy local configuration and operation. For installations in contact with explosive atmospheres certificates are available.*

#### FEATURES

- ▶ Auto-start with self-calibration
- ▶ Self diagnostics, status and diagnostic messages
- ▶ DTM for valve diagnostics and predictive maintenance
- ▶ Easy local operation with the rotary selector
- ▶ Extra large multi-lingual full text graphical LCD. SRD998 AD model with backlight.
- ▶ With HART 7 communication
- ▶ Stroke 8 to 260 mm (0.3 to 10.2 in) with standard lever; larger stroke with special lever
- ▶ Angle range up to 95° (up to 120° on request)
- ▶ Mounting onto any linear or rotary actuator
- ▶ Supply air pressure up to 10 bar (145 psig)
- ▶ Single or double acting
- ▶ Protection class IP 66
- ▶ Explosion protection: Intrinsic Safety according to ATEX/IECEX, INMETRO, NEPSI, PESO, CNS, EAC, KCs, and TIIS



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**MODEL CODE SRD998**

<u>Intelligent Positioner SRD998</u>	<u>Model</u>
<u>Communication</u>	
HART	H
<u>Diagnostics Performance</u>	
Basic Diagnostics	BD
Advanced Diagnostics	AD
<u>Electrical In-Out Option</u>	
No In-Out Option	0
Universal In-Out Option	1
<u>Version</u>	
Single Acting	B
Double Acting	C
<u>Pneumatic Performance</u>	
Standard Pneumatic (6 bar max air supply)	0
Standard Flow - High Performance Pneumatic (10 bar max air supply)	1
High Flow - High Performance Pneumatic (Cv 0.58 - 10 bar max air supply)	2
Very High Flow - High Performance Pneumatic (Cv 0.85 - 10 bar max air supply)	3
<u>Fail in case of loss of power</u>	
Fail safe	S
<u>Housing</u>	
Aluminum	1
<u>Mounting</u>	
Standard	S
Direct mounting	T
Remote Mounting of positioner with side mounting potentiometer unit	V
Remote Mounting of positioner with top mounting potentiometer unit	W
Remote Mounting of positioner w/o potentiometer unit (order potentiometer separately)	Y
<u>Pneumatic Connection</u>	
1/4 NPT	A
1/4 G	B
<u>Gauges</u>	
Without gauge	0
With 2 standard gauges for single acting (a)	1
With 2 Nickel plated gauges connection for single acting (a)	2
With 3 standard gauges for double acting (b)	3
With 3 Nickel plated gauges connection for double acting (b)	4
<u>Electrical Connection</u>	
M20x1.5	7
1/2 NPT (made with an adaptor)	8



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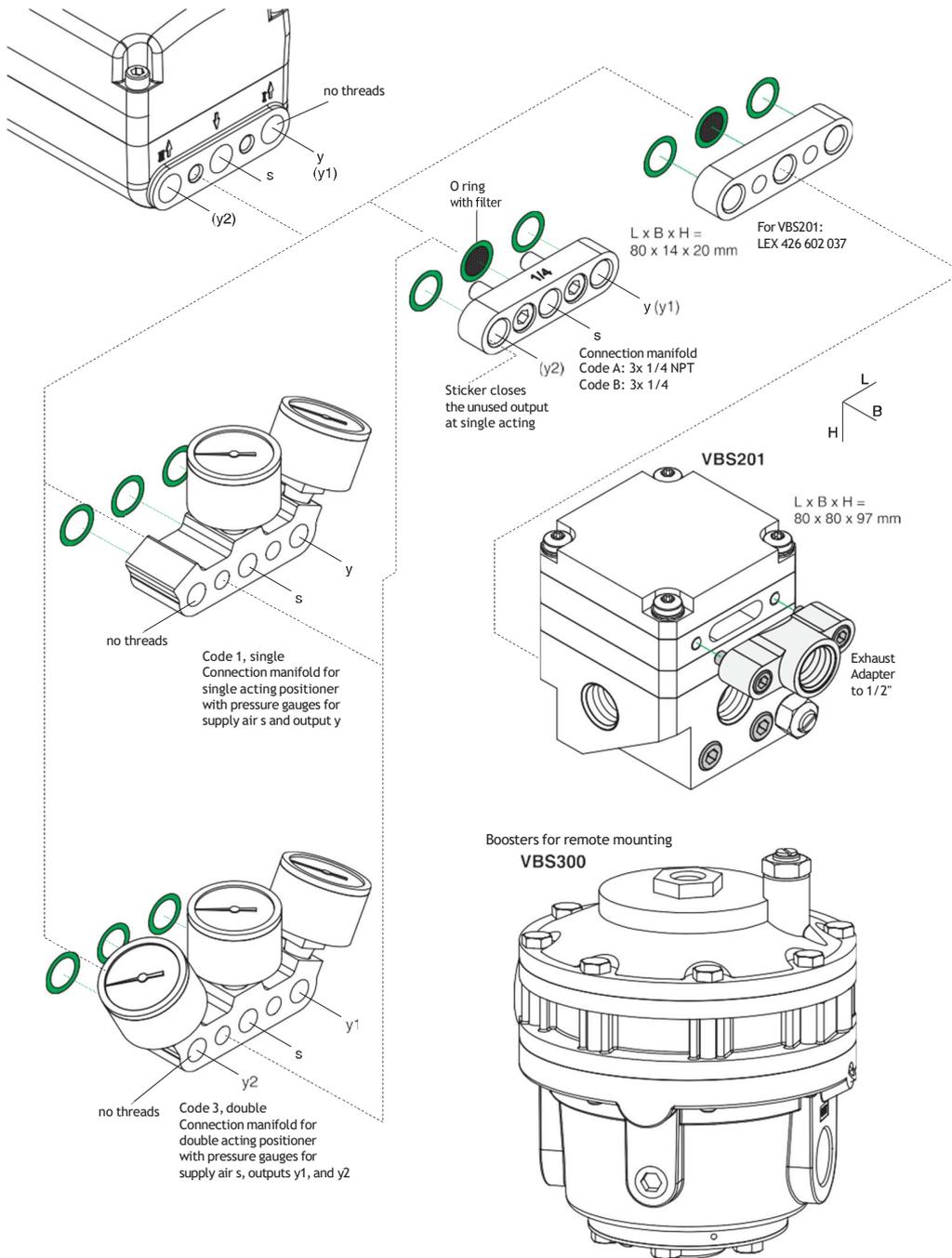
**MODEL CODE SRD998 (CONTINUED)**

Intelligent Positioner SRD998	Model
<u>Electrical Certification</u>	
without certification	ZZ
ATEX/IECEX: II 2G Ex ia IIC T6...T4 Gb; II 1D Ex ia IIIC (c) or IIIB (d) T100°C Da	A1
ATEX/IECEX: II 2G Ex ib IIC T6...T4 Gb; II 2D Ex ib IIIC (c) or IIIB (d) T100°C Db	A2
ATEX/IECEX: II 3G Ex ic IIC T6...T4 Gc; II 3D Ex ic IIIC (c) or IIIB (d) T100°C Dc	A3
INMETRO: Ex ia IIC T4/T6 Gb, Ex ia IIIC T100°C Da, IP66 (c)	B1
INMETRO: Ex ib IIC T4/T6 Gb, Ex ib IIIC T100°C Db, IP66 (c)	B2
INMETRO: Ex ic IIC T4/T6 Gc, Ex ic IIIC T100°C Dc, IP66 (c)	B3
NEPSI: Ex ia IIC T4/T6 Ga, Ex iaD 20 T100 Da, IP66 (c)	N1
NEPSI: Ex ib IIC T4/T6 Gb, Ex ibD 21 T100 Db, IP66 (c)	N2
NEPSI: Ex ic IIC T4/T6 Gc, Ex icD 22 T100 Dc, IP66 (c)	N3
EAC: 1 Ex ia IIC T4/T6 Gb X, Ex ia IIIC T100°C Da (c)	G1
EAC: 1 Ex ib IIC T4/T6 Gb X, Ex ib IIIC T100°C Db (c)	G2
EAC: 2 Ex ic IIC T4/T6 Gc X, Ex ic IIIC T100°C Dc (c)	G3
CNS certification IS (c) (d)	
PESO certification IS (c) (e)	
KCs (Korean Certificate Safety): II 2G Ex ia IIC T4/T6 Gb, II 1D Ex ia IIIC T100°C Da (c)	K1
KCs (Korean Certificate Safety): II 2G Ex ib IIC T4/T6 Gb, II 2D Ex ib IIIC T100°C Db (c)	K2
KCs (Korean Certificate Safety): II 3G Ex ic IIC T4/T6 Gc, II 3D Ex ic IIIC T100°C Dc (c)	K3
<u>Options</u>	
Stainless Steel Label, fixed with wire	-L

- a. Only to be ordered with single acting model code Version B.
- b. Only to be ordered with double acting model code Version C.
- c. For Model BD.
- d. The SRD998 has a CNS certificate for usage in Taiwan. Please order with ATEX/IECEX model code.
- e. The SRD998 has a PESO certificate for usage in India. Please order with ATEX/IECEX model code.

**ACCESSORIES FOR ALL BASIC DEVICES**

Figure 11. Accessories for all Basic Devices





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### MODEL CODE ACCESSORIES

Accessories for SRD998	Model
<u>Filter Regulators</u>	
Filter Regulator for -30°C to 70°C	FRS02
Stainless Steel (316) Filter Regulator	FRS03
High Flow Filter Regulator 1/2 inch/Aluminum	FRS04
High Flow Filter Regulator 1/2 inch/Stainless Steel	FRS05
Mounting Bracket for FRS02 or FRS03	EBZG-FR1
Orientable Mounting Bracket for FRS02 or FRS03	EBZG-FR2
Nipple for direct mounting Filter regulator 1/4 NPT both sides	VG-91
Mounting Bracket for FRS04	EBZG-FR4
Mounting Bracket for FRS05	EBZG-FR5
Nipple 1/2 NPT (FRS04/05 side) to 1/4 NPT (SRD998 side) for direct piping	VG-93
<u>Communication/Modem/DTM</u>	
HART USB Modem (made by Ifak) with ATEX IS Certification	MOD900
DTM for SRD Series for HART	VALCARE
Service Modem	EDC90
<u>Booster Relay (in case of double acting, quantity 2 pieces)</u>	
Remote version for a positioner	VBS200
Integral volume booster for SRD991, SRD960, SRD998, and SRI990 (directly flanged to positioner)	VBS201
Booster Cv7 - Alum Housing - Remote mounting	VBS300
Booster Cv7 - SS Housing - Remote mounting	VBS310
<u>Limit Switch</u>	
Mechanical Limit Switch weatherproof and plastic housing (TE Sensors XCKN2118P20)	MLS01
<u>Cable Gland</u>	
Cable Gland, M20x1.5 Plastics, Color Gray/Black	BUSG-K6
Cable Gland, M20x1.5 Plastics, Color Blue	BUSG-K7
Cable Gland, M20x1.5 Plastics, Color White	BUSG-K9
Cable Gland, M20x1.5 Stainless Steel	BUSG-S6
<u>Adapter</u>	
Adapter (Brass With Nickel Coating) M20x1.5 to 1/2-14 NPT (Internal Thread)	AD-A5
Adapter (SS) M20x1.5 to 1/2-14 NPT (Internal Thread)	AD-A6
<u>Attachment Kits</u>	
For diaphragm actuators with casting yoke according to NAMUR (incl. standard Couple lever)	EBZG
For diaphragm actuators with casting yoke according to NAMUR (incl. standard Couple lever)	-H
- Compact	-H1
Compact stainless steel bracket according to NAMUR	-H6
For diaphragm actuators with pillar yoke according to NAMUR (incl. standard Couple lever)	-K
For diaphragm actuators with pillar yoke according to NAMUR (incl. standard Couple lever)	-K1
- Compact	
For FoxTop/FoxPak	-E1
For mounting to rotary actuators according to VDI/VDE 3845 (without bracket)	-R
Brackets VDI/VDE 3845 (A = 80 mm/3.15 in; B = 20 mm/0.79 in)	-C1
Brackets VDI/VDE 3845 (A = 80 mm/3.15 in; B = 30 mm/1.18 in)	-C2
Brackets VDI/VDE 3845 (A = 130 mm/5.12 in; B = 50 mm/1.97 in)	-C3
Brackets VDI/VDE 3845 (A = 130 mm/5.12 in; B = 30 mm/1.18 in)	-C4
Universal Brackets VDI/VDE 3845 (A = 80 or 130 mm; B=20 or 30 or 50 mm)	-C5



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**MODEL CODE ACCESSORIES (CONTINUED)**

<u>Accessories for SRD998</u>	<u>Model</u>
<u>Couple Lever</u>	<u>EBZG</u>
Standard (stroke max. 80 mm)	A
Extended (stroke max. 260 mm)	-A1
Reduced (stroke < 8 mm)	-A2
Fold feedback lever (stroke 8 to 70 mm)	-A3
Short stroke (stroke 8 to 35 mm)	-A4
Couple Lever Folded (stroke special)	-A5
Extended (stroke max. 120 mm)	-B
<u>Carrier bolt</u>	<u>SRXG</u>
Carrier bolt extra short 23 mm	-A
Adjustable carrier bolt 20 to 37 mm	-B
Carrier bolt 38 mm	-C
Carrier bolt 47 mm	-D
Carrier bolt 57 mm	-E
Carrier bolt 65 mm	-F
Adjustable carrier bolt with fixing system for stem diameter up to 21 mm	-G
Adjustable carrier bolt with fixing system for stem diameter up to 34 mm	-H
Carrier Bolt 80 mm	-I
Adjustable carrier bolt for thread 3/8"	-J
Adjustable carrier bolt for thread 5/16"	-K
Extension for carrier bolt	-L
Adjustable carrier bolt with fixing system centered for stem diameter up to 64 mm	-M
Adjustable carrier bolt with fixing system centered for stem diameter up to 21 mm	-G1
Adjustable carrier bolt with fixing system centered with extension up to 80 mm for stem diameter up to 21 mm	-G2