

## SRI986 Electro-Pneumatic Positioner



The SRI986 Positioner is for operation of 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.

### FEATURES

- Independent adjustment of stroke range and zero
- Adjustable amplification and damping
- Split range up to 3-fold possible
- Input signal 0/4 to 20 mA, 0/2 to 10 V
- Supply pressure up to 6 bar (90 psig)
- Low vibration effect in all directions
- Mounting according to IEC 534, part 6 (NAMUR)
- Rotation adapter for angles up to 120
- Explosion protection:  
II 2 G EEx ia IIC T6 according to ATEX or  
intrinsic safe acc. to FM, CSA, CU TR, INMETRO
- EMC in accordance with the international standards and laws
- Modular system of additional equipment
  - Limit switches
  - Position transmitter
  - Booster
  - Connection manifold

**DISAI**  
Automatic Systems

T-962 448 450 [www.disai.net](http://www.disai.net)

**Foxboro**<sup>®</sup>

by **Schneider** Electric

## TECHNICAL DATA

### Input

Signal range . . . . . 4 to 20 mA or  
 0 to 20 mA or  
 2 to 10 V (On request) or  
 0 to 10 V (On request)

Input resistance . . . . . < 200 Ohms at 20 °C

Stroke range . . . . . 8 to 100 mm (0.3 to 4 in)

Angular range  
 linear . . . . . 30 ° to 120 °  
 equal percentage . . . . . 90 °; from 70 ° linear

### Output

Output to actuator . . . . . 0 to 100 % supply air pressure

### Supply

Supply air pressure . . . . . 1.4 to 6 bar (20 to 90 psig)

Air supply . . . . . according to ISO 8573-1  
 - Solid particle size and density class 2  
 - Oil rate . . . . . class 3  
 - Pressure dew point 10 K under ambient temperature

The use of filter regulator for air supply of positioner is strongly recommended. It reduces the air pressure to actuator's maximum pressure and keeps it constant.

### Ambient conditions

Ambient temperature <sup>1)</sup> . . . . . -40 to 80°C (-40 to 176°F)

Relative humidity . . . . . up to 100 %

Operating conditions  
 according to IEC 654-1 . . . . . The device can be operated at a class D2 location

Transport and  
 storage temperature . . . . . -50 to 80°C (-58 to 176°F)

Storage conditions  
 acc. to IEC 60 721-3-1 . . . . . 1K5, 1B1, 1C2, 1S3, 1M2

Protection class . . . . . IP 54; IP65 as an option  
 IP65 protection class can be selected from model code option -F or can be retrofit on existing device by ordering the kit EW 411 406 301.

### Electromagnetic compatibility EMC

Operating conditions . . . . . industrial environment

Immunity according to  
 - EN 61326, EN 61000-6-2 . . fulfilled

Emission according to  
 - EN 61326, Class A,  
 - EN 61000-6-3 . . . . . fulfilled

NAMUR recommendation . . fulfilled

### CE marking

Electromagnetic compatibility 2004/108/EC  
 Low-voltage regulation . . . . . not applicable

### Response characteristic <sup>2)</sup>

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

### Air consumption

Air consumption single acting  
 Supply air 1.4 bar (20 psig) 200 l<sub>n</sub>/h ( 7.1 scfh)  
 Supply air 3.0 bar (45 psig) 400 l<sub>n</sub>/h (12.4 scfh)  
 Supply air 6.0 bar (90 psig) 600 l<sub>n</sub>/h (21.2 scfh)

Air consumption double acting  
 Supply air 1.4 bar (20 psig) 350 l<sub>n</sub>/h (10.6 scfh)  
 Supply air 3.0 bar (45 psig) 550 l<sub>n</sub>/h (17.7 scfh)  
 Supply air 6.0 bar (90 psig) 750 l<sub>n</sub>/h (33.5 scfh)

### Air output

Load effect <sup>3)</sup> . . . . . -3 % for delivery flow  
 2350 l<sub>n</sub>/h (83 scfh)  
 +3 % for exhausted flow  
 1900 l<sub>n</sub>/h (67 scfh)

### Capacity at max. deviation

Supply air pressure bar (psig)	1.4 (20)	2 (30)	4 (60)	6 (90)
without booster l <sub>n</sub> /h (scfh)	2 700 (95)	3 500 (124)	5 500 (194)	7 500 (265)
with booster VKXG-FN/GN l <sub>n</sub> /h (scfh)	18 000 (636)	24 000 (847)	40 000 (1 492)	55 000 (1 942)
with booster VKXG-HN l <sub>n</sub> /h (scfh)	36 000 (1 271)	48 000 (1 695)	80 000 (2 825)	110 000 (3 884)

- 1) Note the section "Explosion protection" on pages 6 and 7 with respect to explosion-protected equipment
- 2) Data based on the following parameters:  
 stroke 30 mm (1.28 in), range spring FES 628/1,  
 feedback lever 117.5 mm (4.63 in), max. amplification,  
 supply air pressure 3 bar (45 psig)
- 3) Measured at air supply 1.4 bar (20 psig) and 50 % of the signal range

**Materials**

Housing . . . . .	Aluminum (Alloy No. 230) finished with DD-varnish grey blue
All moving parts of feedback system . . . . .	WNr. 1.4305 / 1.4571
Mounting bracket . . . . .	Aluminum (Alloy No. 230)

**Weight**

single acting . . . . .	approx. 1.5 kg (3.3 lbs)
double acting . . . . .	approx. 1.8 kg (3.9 lbs)
Attachment kit	
for diaphragm actuators. . .	approx. 0.3 kg (0.6 lbs)
for rotary actuators . . . . .	approx. 0.5 kg (1.1 lbs)

**Connection**

Pneumatic . . . . .	Female threads G 1/8 acc. to ISO 228
Electric	
Line entry . . . . .	1 or 2 cable glands M20 x 1.5 or 1/2-14 NPT (others with Adapter AD-...)
Cable diameter. . . . .	6 -12 mm (0.24 - 0.47 in)
Screw terminals . . . . .	Screw terminals for wires up to 2.5 mm <sup>2</sup> (AWG 14)

**Mounting**

Type of mounting . . . . .	for attaching to diaphragm actuators acc. to IEC 534-6 (NAMUR) and to rotary actuators
Mounting orientation. . . . .	any

## ADDITIONAL EQUIPMENT

Additional equipment is installed by the manufacturer, but some types can also be put in later on. Therefore special part sets are available.

### Inductive Limit Switch, two-wire system Code P, Q, T, U

Input . . . . . Stroke / angle from actuator  
via positioner feedback lever

Output . . . . . 2 inductive proximity sensors  
acc. to DIN 19 234 resp.  
NAMUR for connection to  
a switching amplifier with  
an intrinsically safe control  
circuit <sup>1) 2) 3)</sup>

#### Current consumption

Vane clear. . . . . > 3 mA  
Vane interposed . . . . . < 1 mA  
for control circuit with the following electrical values  
Supply voltage . . . . . DC 8 V, R<sub>i</sub> approx. 1 kOhms  
Residual ripple . . . . . < 5 %  
Permissible  
line resistance . . . . . < 100 Ohms

#### Response characteristic <sup>6)</sup>

Gain . . . . . continuously adjustable  
from 1:1 to approx. 7:1

Switching differential . . . . . < 1 %

Switching point  
repeatability. . . . . < 0.2 %

EMC . . . . . acc. to EN 60 947-5-2

#### Part set for later installation

Code P, Q. . . . . not available  
Code T . . . . . EW 419 510 343  
Code U . . . . . EW 419 510 361

### Inductive Limit Switch, three-wire system Code R

Input . . . . . Stroke / angle from actuator  
via positioner feedback lever

Output . . . . . 2 inductive proximity sensors,  
three-wire system,  
LED indication,  
contact, pnp <sup>2) 4)</sup>

Supply voltage U<sub>s</sub> . . . . . DC 10 to 30 V  
Residual ripple . . . . . ± 10 %, U<sub>s</sub> = 30 V  
Switching frequency . . . . . 2 kHz  
Constant current . . . . . 100 mA

#### Response characteristic <sup>6)</sup>

Gain . . . . . continuously adjustable  
from 1:1 to approx. 7:1

Switching differential . . . . . < 1 %

Switching point  
repeatability. . . . . < 0.2 %

Part set for later installation . EW 419 510 307

### Limit Switch Assembly with Micro-switches Code V

Input . . . . . Stroke / angle from actuator  
via positioner feedback lever

Output . . . . . 2 micro switches <sup>2) 5)</sup>

Connected load, alternating current

Switching capacity. . . . . max. 250 VA  
Switching voltage . . . . . max. 250 V  
Switching current with  
ohmic resistance . . . . . max. 5 A  
inductive resistance . . . . . max. 2 A  
Bulb, metal filament . . . . . max. 0.5 A

Connected load, direct current

Switching voltage, max. V	Ohmic load A	Inductive load A
30	5	3
50	1	1
75	0.75	0.75
125	0.5	0.03
250	0.25	0.03

#### Response characteristic <sup>6)</sup>

Gain . . . . . continuously adjustable  
from 1:1 to approx. 7:1

Switching differential . . . . . < 2.5 %

Switching point  
repeatability. . . . . < 0.2 %

Part set for later installation EW 420 421 026

### Connection Manifold with Gauges Code JN, MN, RN, SN

Indicating range . . . . . 0 to 10 bar (0 to 150 psig)  
Error limit . . . . . class 1.6  
Pneum. connections. . . . . Female threads  
Q1/4-18 NPT  
acc. to DIN 45 141

- 1) For the standard version Code P, T one switching amplifier is required. For the security version Code Q, U a fail-safe amplifier for each inductive proximity sensor is required.
- 2) Operating mode min. (=low) / max. (=high) selectable by adjustment of switch vanes
- 3) Operating mode normally closed circuit / normally open circuit selectable at switch amplifier output
- 4) Contact closed within the positive range
- 5) Contact open within the positive range
- 6) For feedback lever effective length 117.5 mm (4.63 in), stroke 30 mm (1.28 in) and maximum gain

**Electrical Position Transmitter****Code F**

Sensor . . . . .	resistive precision conductive plastic element
Input . . . . .	Stroke / angle from actuator via positioner feedback lever
Stroke range . . . . .	8 to 100 mm (0.3 to 4 in)
Angular range . . . . .	60 to 120 °
Output . . . . .	two-wire system
Signal range . . . . .	4 to 20 mA
Permitted load . . . . .	$R_{Bmax} = \frac{U_S - 12V}{0.02A}$ ( $U_S$ = Supply voltage)

**Power supply**

Supply voltage . . . . .	DC 12 to 36 V
Permitted ripple . . . . .	< 10 % p.p.
Supply voltage dependency . . . . .	< 0.2 %

**Response characteristic <sup>1)</sup>**

Non-linearity with terminal based setting . . . . .	< 1.0 % F.S.
Hysteresis . . . . .	< 0.5 % F.S.
External resistance dependency . . . . .	< 0.2 % / $\Delta R_{Bmax}$
Temperature effect . . . . .	< 0.3 % / 10 K

**Part set for later installation**

Code F . . . . .	EW 420 661 124
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**Common data <sup>2)</sup>****Ambient conditions**

Ambient temperature <sup>3) 4)</sup> . . . . .	-25 to 80 °C (-13 to 176 °F) -40 to 80 °C (-40 to 176 °F)
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Relative humidity . . . . . up to 100 %

**Operating conditions**

according to IEC 654-1 . . . . . The device can be operated  
at a class D2 location

**Transport and**

storage temperature . . . . .	-40 to 80 °C (-40 to 176 °F)
Protection class . . . . .	IP 54, IP65

Mounting . . . . . attachment to positioner

**Electrical connections**

Line entry . . . . .	1 or 2 cable glands M20 x 1.5 or 1/2-14 NPT (others with Adapter AD-...)
Cable diameter . . . . .	6 -12 mm (0.24 - 0.47 in)
Screw terminals . . . . .	Screw terminals for wires up to 2.5 mm <sup>2</sup> (AWG 14)
Optionally . . . . .	Screwed gland made of stainless steel WNr. 1.4305

**Materials**

Base plate . . . . .	galvanized steel
Control vane . . . . .	Aluminum
Setting mechanism . . . . .	Fibre-glass reinforced polyamid

- 1) For feedback lever with effective length 117.5 mm (4.63 in) and stroke 30 mm (1.28 in)
- 2) Except manifold with gauges
- 3) Note the section "Explosion protection" on pages 6 and 7 with respect to explosion-protected equipment.
- 4) -40 to 80 °C (-40 to 176 °F) for the fail-safe version of inductive limit switch Code Q, U

## SAFETY REQUIREMENTS

### Safety

acc. to EN 61 010-1  
(resp. IEC 1010-1) . . . . . safety class III,  
pollution degree 2,  
overvoltage category I

Limit Switch Code V  
(additional equipment) . . . . . safety class II,  
pollution degree 2,  
overvoltage category II

### Explosion protection type EEx ia/ib <sup>1)</sup>

**Basic device** Type . . . . . AI 633  
Type of protection . . . . . II 2 G EEx ib/ia IIB/IIC T4/T6  
Certificate of conformity . . . PTB 02 ATEX 2153  
For operation in certified intrinsically safe circuits with the  
following maximum values of input circuit:  
U<sub>i</sub> . . . . . 30 V  
I<sub>i</sub> . . . . . 150 mA  
P<sub>i</sub> . . . . . refer to following table:

P <sub>i</sub> [W]	T <sub>6</sub> [°C]	T <sub>4</sub> [°C]
2	40	90
1.5	50	90
1	57.5	90

Internal inductance . . . . . negligible  
Internal capacitance . . . . . negligible

The control circuit is galvanically separate from earth and all other electric circuits.

**Limit Switch** Code T, U (additional equipment)  
Type of protection Intrinsic safety EEx ib/ia IIB/IIC  
with the following maximum values:  
U<sub>i</sub> . . . . . 16 V  
I<sub>i</sub> . . . . . 25 mA  
P<sub>i</sub> . . . . . 64 mW  
Internal inductance . . . . . 100 μH  
Internal capacitance . . . . . 30 nF

The signal circuits are galvanically separate from earth, from each other and from all other electric circuits.

**Position Transmitter** Code F (additional equipment)  
Type of protection Intrinsic safety EEx ib/ia IIB/IIC  
with the following maximum values:  
for temperature class T4 and a maximally permissible  
outside ambient temperature of 80 °C:  
U<sub>i</sub> . . . . . 30 V  
I<sub>i</sub> . . . . . 130 mA  
P<sub>i</sub> . . . . . 0.9 W

for temperature class T4 and a maximally permissible  
outside ambient temperature of 60 °C:  
U<sub>i</sub> . . . . . 22 V  
I<sub>i</sub> . . . . . 66 mA  
P<sub>i</sub> . . . . . 0.5 W

The effective internal inductance L<sub>i</sub> left amounts to 9 μH, the effective capacity C<sub>i</sub> against earth amounts to 10 nF and/or differential 6 nF.

The supply- and signal circuits are galvanically separate from earth and from all other electric circuits.

1) National installation regulations must be observed  
The national regulations must be strictly observed when retrofitting the electrical position transmitter type AI 633 in the electro-pneumatic positioner of type AI 633 or the inductive limit switch type AI 633 K in the electro-pneumatic positioner of type AI 633 (SRI986-BIDS2EBB and SRI986-CIDS2EBB).  
The following regulations apply to the Federal Republic of Germany:  
The installation must be carried out by the manufacturer, or the product must be tested by a qualified inspector as a special version in accordance with ElexV.

**Explosion protection Zone 2** <sup>1)</sup>

It is recommended that the instrument version for protection type EEx ia is used.

In the Federal Republic of Germany these instruments may be operated in Zone 2 with non-intrinsically safe circuits if the operating values do not exceed the maximum reference values.

**Explosion protection according to FM and CSA** <sup>1)</sup>

Electro-pneumatic positioner type BIM 633

Intrinsically safe, Class I, Division 1,

Groups A, B, C, D, hazardous locations

**Explosion protection according to INMETRO**

see certificate

**Explosion protection according to CU TR**

EAC marking see certificate

1) National installation regulations must be observed

**MODEL CODES SRI986**

<b>Electro-Pneumatic Positioner</b>	<b>SRI986</b>									070715
<b>Version</b>										
Single Acting . . . . .		-B								
Double Acting . . . . .		-C								
<b>Input</b>										
Signal Range 4 - 20 mA . . . . .		-I								
<b>Mode of Action</b>										
Direct Version: Increasing Input increases Output . . . . .				D						
Reverse Version: Increasing Input decreases Output . . . . .				R						
<b>Built-In Limit Switch/Position Transmitter</b>										
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		
<b>Cable Entry</b>										
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		
<b>Electrical Certification: (Only Standard Device)</b>										
II 2 G EEx ia IIC T6 according to ATEX . . . . . (d) . . . . .									EAA	
FM Approved For Intrinsic Safety Cl. I, Div. 1, Groups A,B,C,D Hazardous Locations Indoors . . . . .									FAA	
CSA Approved For Intrinsic Safety Cl. I, Div. 1, Groups A,B,C,D Hazardous Locations Indoors . . . . .									CAA	
GOST Approved For Intrinsic Safety . . . . .									GAA	
EAC Approved For Intrinsic Safety . . . . .									EAC	
INMETRO approved for Intrinsic Safety . . . . .									BAA	
Without . . . . .									ZZZ	
<b>Attachment Kit</b>										
Order as Auxiliary . . . . .										N
<b>Manifold</b>										
Order as Auxiliary . . . . .										A
<b>Options</b>										
Amplifier Free Of Nonferrous Metals . . . . . (a) . . . . .										-C
Protection Class IP65 made with non return valve exhaust . . . . .										-FA
Designed For Auxiliary Energy Oxygen Max 6 Bar (With BAM Certificate) . . . . .										-S
LLoyd's Register of Shipping . . . . .										-X
Certificate EN 10204-2.1 - Certificate of compliance with the order . . . . .										-1
<b>Tag No. Labeling</b>										
Stamped With Weather Resistant Color . . . . .										-G
Stainless Steel Label Fixed With Wire . . . . .										-L

Example: SRI986 -B I D S 7 ZZZ N A -CG

Footnotes

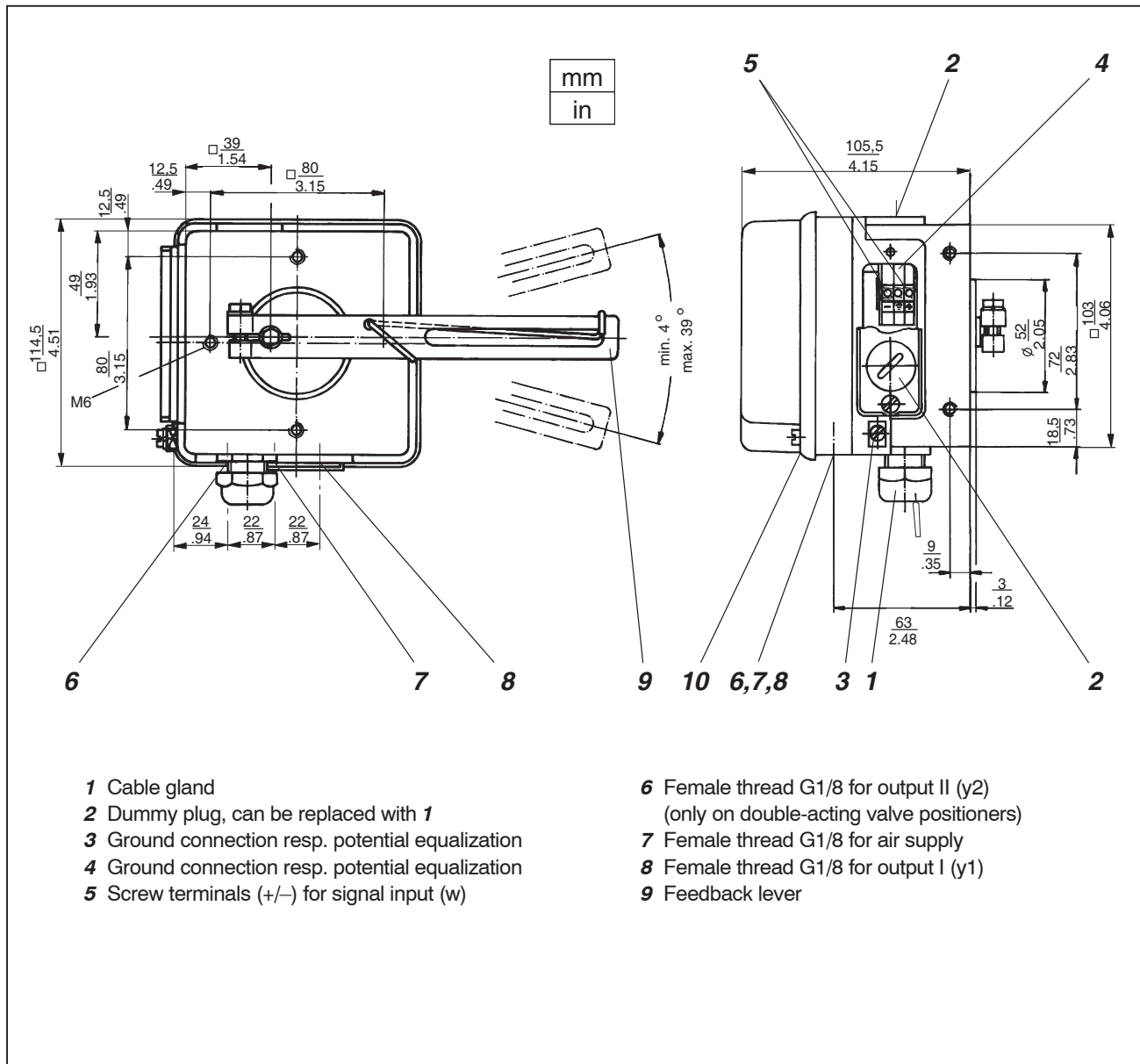
- a) Not available with FAA & CAA
- d) Not available with Limit Switch Codes R, V



**MODEL CODES Accessories**

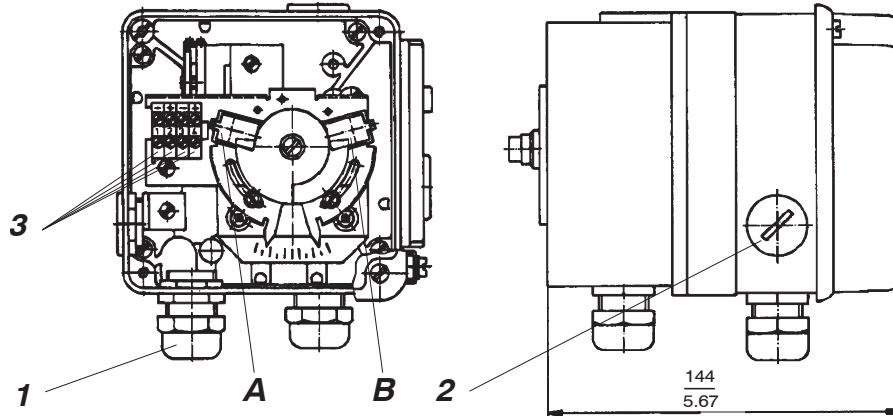
<b>Attachment kit</b>		<b>EBZG</b>
for diaphragm actuators with casting yoke acc. to NAMUR (incl. standard Couple lever) (for SRI986) . . . . .		-HN
for diaphragm actuators with pillar yoke acc. to NAMUR (incl. standard Couple lever) (for SRI986) . . . . .		-KN
for rotary actuators, without flange, 3 drill holes 6.5 mm (for SRP981, SRI983, SRI986, SMP981, SMI983, SGE985) . . . . .		-PN
for rotary actuators, without flange, 4 threads M6 (for SRP981, SRI983, SRI986, SMP981, SMI983, SGE985) . . . . .		-NN
for rotary actuators, with flange (for SRP981, SRI983, SRI986, SMP981, SMI983, SGE985) . . . . .		-JN
for rotary actuators, with shaft (for SRP981, SRI983, SRI986, SMP981, SMI983, SGE985) . . . . .		-ZN
for Masonellan type Camflex II (for SRP981, SRI983, SRI986, SMP981, SMI983, SGE985) . . . . .		-RN
<i>Further Attachment kits on request. See also <a href="http://www.foxboro-eckardt.eu/products/positioners_en/Attachment_Kits">http://www.foxboro-eckardt.eu/products/positioners_en/Attachment_Kits</a></i>		
<b>Couple lever / cam</b>		
standard (a = 72 mm) . . . . .		-AN
extended (a = 91 mm) . . . . .		-BN
inverse equal percentage cam for rotary actuators . . . . .		-CN
<b>Spring set</b>		<b>FESG</b>
range-springs (4pc.) . . . . .		-FN
<b>Manifold (Connection 1/4-18NPT)</b>		<b>LEXG</b>
staggered connections (for SRP981, SRI986) . . . . .		-BN
connections same level (for SRP981, SRI986) . . . . .		-CN
with gauges for supply air, y, for version single acting (for SRP981, SRI986) . . . . .		-JN
with gauges for supply air, y1, y2, for version double acting (for SRP981, SRI986) . . . . .		-MN
gauge manifold without gauge, for version single acting (for SRP981, SRI986) . . . . .		-RN
gauge manifold without gauge, for supply air, y1, y2, for version double acting (for SRP981, SRI986) . . . . .		-SN
<b>Booster (Connection 1/4-18NPT)</b>		<b>VKXG</b>
for Version single acting (for SRP981, SRI986) . . . . .		-FN
for Version double acting (for SRP981, SRI986) . . . . .		-GN
for Version single acting with doubled output capacity (for SRP981, SRI986) . . . . .		-HN
<b>Adapter (Material SS)</b>		<b>AD</b>
Adapter 1/2" NPT to 3/4" NPT . . . . .		-A3
Adapter (stainless steel) M20x1.5 to 1/2"-14NPT (internal thread) . . . . .		-A6
Adapter (stainless steel) M20x1.5 to PG 13.5 (internal thread) . . . . .		-A7
Adapter (stainless steel) M20x1.5 to G 1/2" (internal thread) . . . . .		-A8
Adapter (plastic) M20x1.5 to PG 13.5 (internal thread) . . . . .		-A9
<b>Cable gland</b>		<b>BUSG</b>
PG 13.5 Plug-connector for Fieldbus (ss/ threaded connection 7/8 - UN) . . . . .		-F1
M20x1.5 Plug-connector for Fieldbus (ss/ threaded connection 7/8 - UN) . . . . .		-F2
PG 13.5 plastics, color gray . . . . .		-K1
PG 13.5 plastics, color blue . . . . .		-K2
PG 13.5 plastics, color white . . . . .		-K4
M20x1.5 plastics, color gray . . . . .		-K6
M20x1.5 plastics, color blue . . . . .		-K7
M20x1.5 plastics, color black . . . . .		-K8
M20x1.5 plastics, color white . . . . .		-K9
PG 13.5 Plug-connector for Fieldbus (ss/ threaded connection M12) . . . . .		-P1
PG 13.5 HF-cable gland for Fieldbus (ss) . . . . .		-P2
M20x1.5 Plug-connector for Fieldbus (ss/ threaded connection M12) . . . . .		-P3
M20x1.5 HF-cable gland for Fieldbus (ss) . . . . .		-P4
PG 13.5 stainless steel . . . . .		-S1
M20x1.5 stainless steel . . . . .		-S6

## DIMENSIONS SRI986

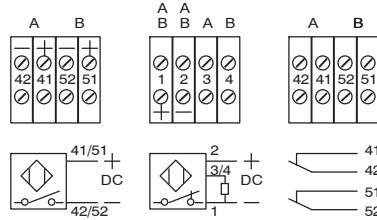


**DIMENSIONS Additional Equipment**

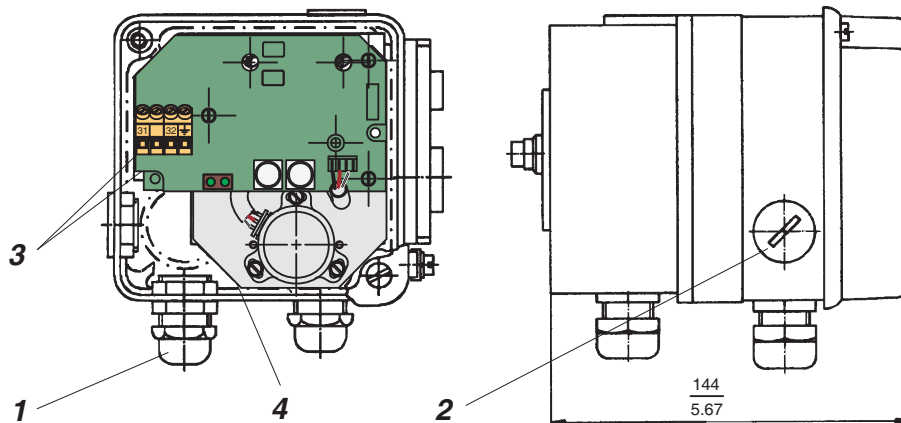
**Built-in Limit Switch Code P, Q, R, T, U, V**



**Built-in Limit Switch Code  
P, Q, T, U R V**



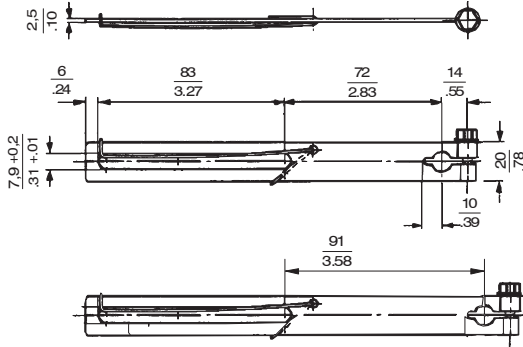
**Built-in Position Transmitter Code F**



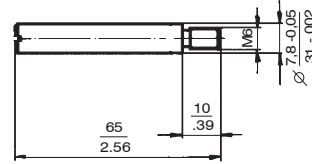
- 1 Cable gland
- 2 Dummy plug, can be replaced with 1
- 3 Connection terminals (+/-)
- 4 Ground connection
- A Limit switch
- B Limit switch

## DIMENSIONS Attachment Kit for Diaphragm Actuators

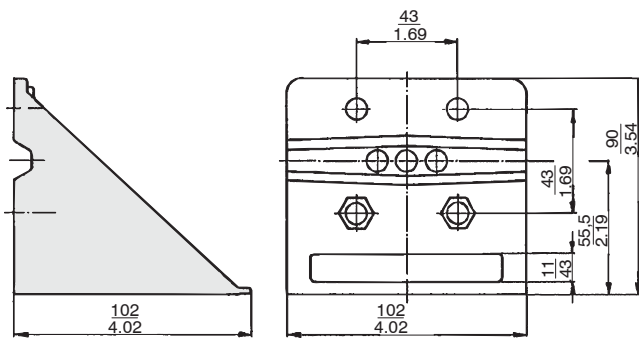
**Feedback lever**  
Code EBZG - HN, - KN, - AN



**Carrier bolt for attachment to valve stem**

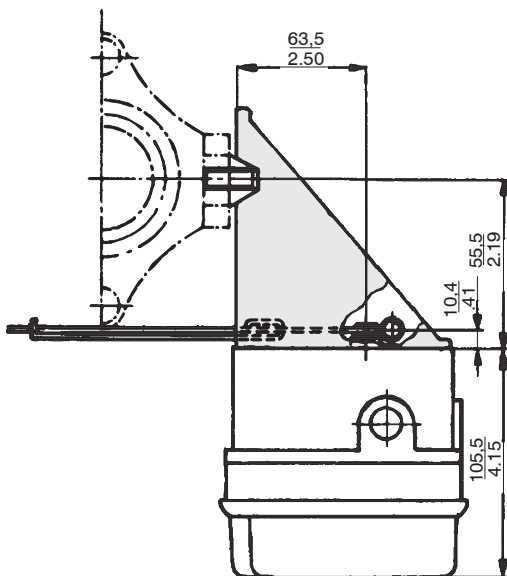


**Dimensions of Mounting bracket acc. to IEC 534-6 (NAMUR) for Code EBZG - HN, - KN**

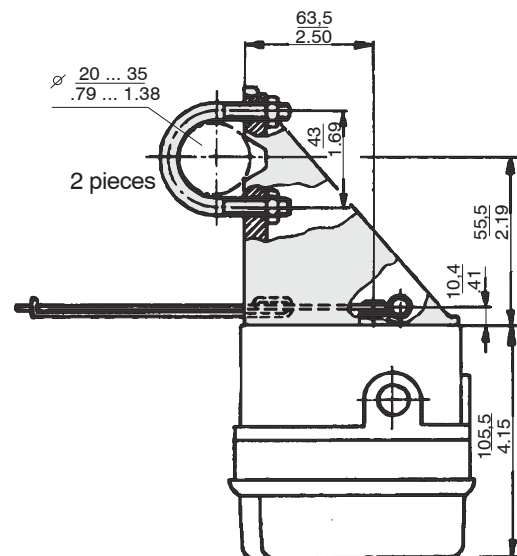


mm
in

**Attachment to casting yoke acc. to IEC 534-6 (NAMUR) Code EBZG - HN**

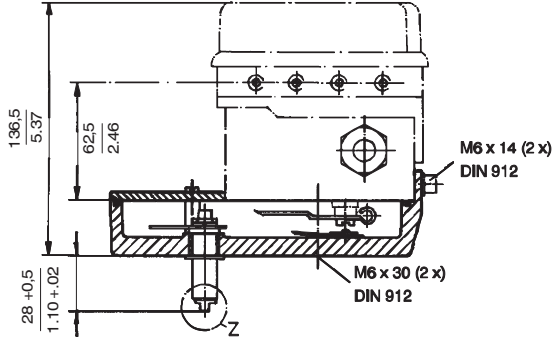


**Attachment to pillar yoke acc. to IEC 534-6 (NAMUR) Code EBZG - KN**

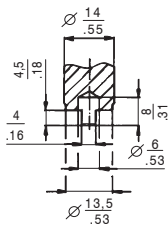


**DIMENSIONS Attachment Kit for Rotary Actuators**

**with shaft (acc. to VDI/VDE 3845)  
Code EBZG - ZN**

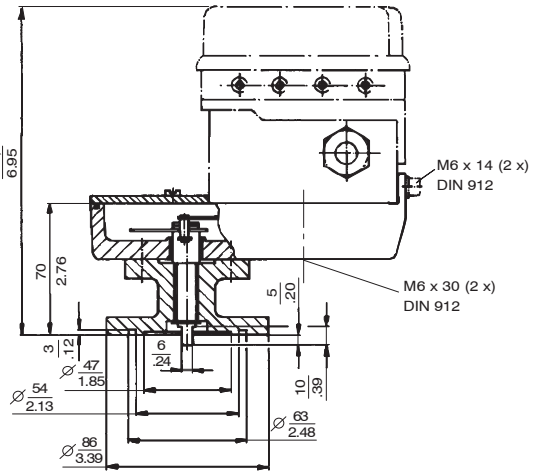
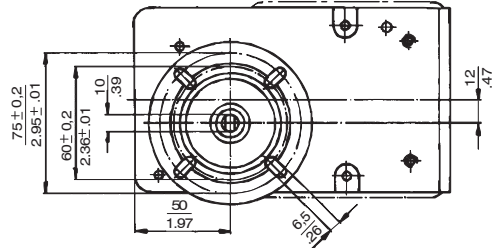


**Detail Z**



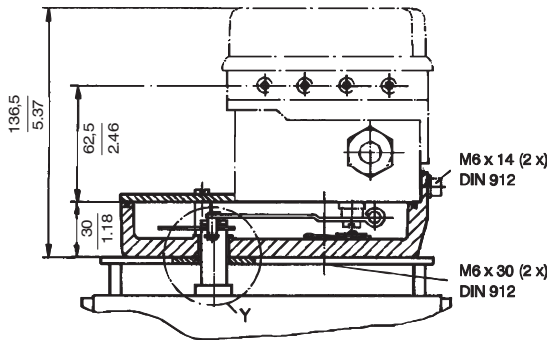
mm
in

**with flange  
Code EBZG - JN**

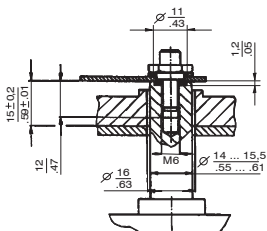


Rotation angle max. 120 °; torque requirement 0.14 Nm

**without flange  
Code EBZG - NN, -PN**

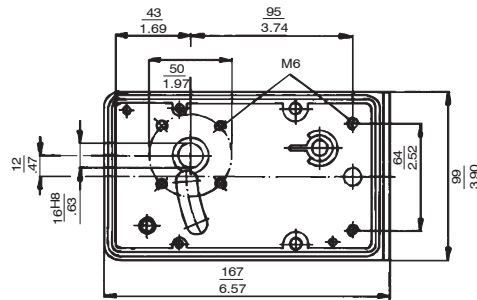


**Detail Y**

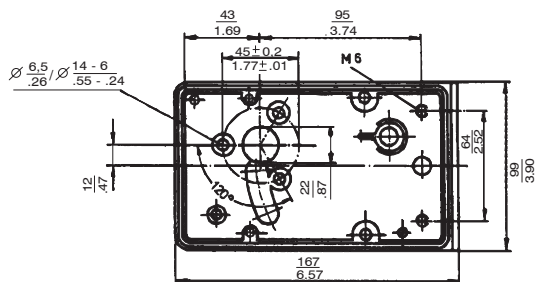


Adaptation of the actuator drive shaft end and correct axial location by client!

**Housing dimensions  
attachment kit with shaft -ZN resp. without flange -NN**

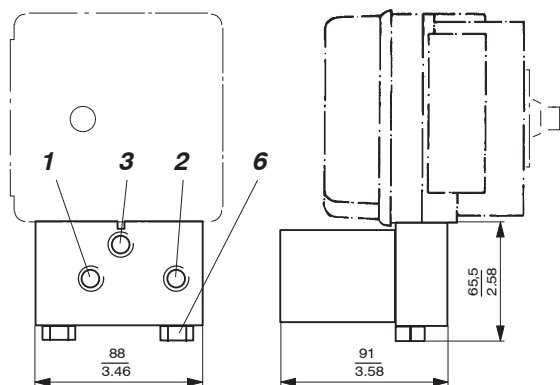


**Housing dimensions  
attachment kit without flange -PN**

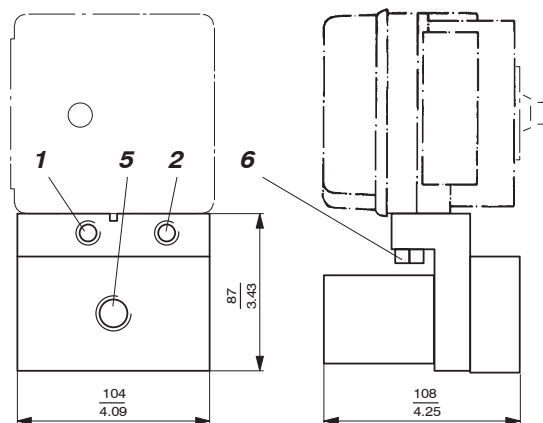


## DIMENSIONS Booster

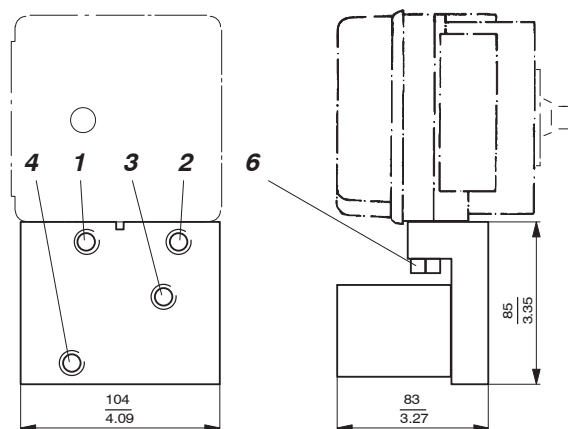
**Booster single acting  
Code VKXG - FN**



**Booster single acting with double capacity  
Code VKXG - HN**



**Booster double acting  
Code VKXG - GN**

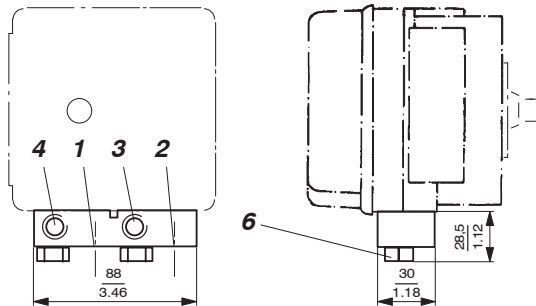


mm
in

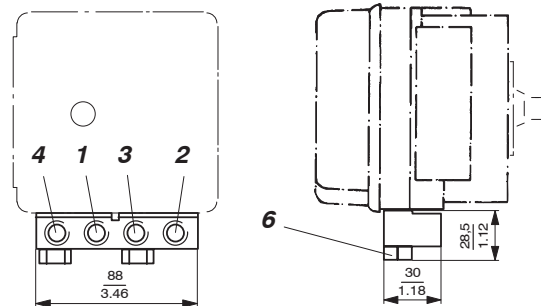
- 1** Female thread 1/4-18 NPT for supply air
- 2** Female thread 1/4-18 NPT not used
- 3** Female thread 1/4-18 NPT for output I (y1)
- 4** Female thread 1/4-18 NPT for output II (y2)
- 5** Female thread 1/2-14 NPT for output I (y1)
- 6** Fixing screws 17 mm A/F

**DIMENSIONS Connection Manifold**

**Connection Manifold  
Code LEXG - BN**



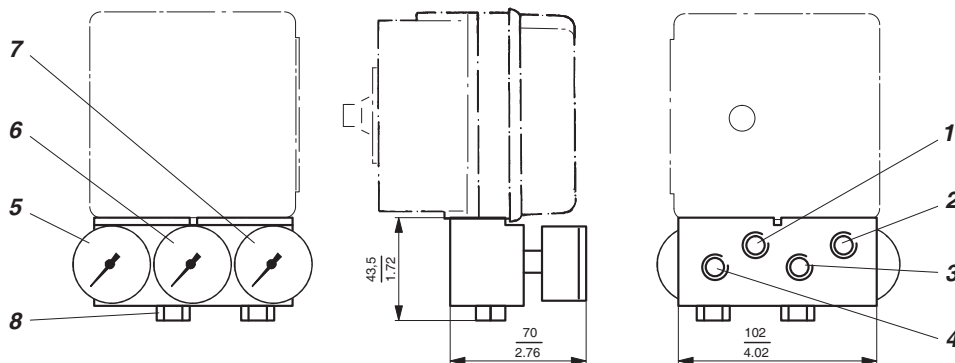
**Connection Manifold  
Code LEXG - CN**



mm
in

- 1 Female thread 1/4-18 NPT for supply air
- 2 Female thread 1/4-18 NPT not used
- 3 Female thread 1/4-18 NPT for output I (y1)
- 4 Female thread 1/4-18 NPT for output II (y2)
- 6 Fixing screws 17 mm A/F

**Connection Manifold with Gauges  
Code LEXG - JN, - MN**



Conne- tion Manifold Code	5 Gauge for Supply air	6 Gauge for Output I (y / y1)	7 Gauge for Output II (y2)	single acting	double acting
JN	Supply air	Output (y)	without	yes	-
MN	Supply air	Output I (y1)	Output II (y2)	-	yes
RN	without	without	without	yes	-
SN	Supply air	Output I (y1)	Output II (y2)	-	yes

- 1 Female thread 1/4-18 NPT for supply air
- 2 Female thread 1/4-18 NPT not used
- 3 Female thread 1/4-18 NPT for output I (y1)
- 4 Female thread 1/4-18 NPT for output II (y2)  
(not for Connection Manifold LEXG - JN)
- 8 Fixing screws 17 mm A/F

## Additional Documentation for this product

### Technical Information of Attachment Kits for Positioners:

[TI EVE0011 A](#) Overview of Attachment Kits of all positioners on actuators/valves of different manufacturers

### Quick Guide:

[QG EVE0102 A](#) Extract of Master Instruction for an easily to use, easy understandable and fast start-up.  
This document highlights the most important aspects.

### Master Instructions:

[MI EVE0102 A](#) SRI986

## Additional Documentation for other products

### Specifications website

<a href="#">PSS EVE0101</a>	SRP981	Pneumatic Positioner
<a href="#">PSS EVE0102</a>	SRI986	Electro-Pneumatic Positioner
<a href="#">PSS EVE0103</a>	SRI983	Electro-Pneumatic Positioner- explosion proof or EEx d version
<a href="#">PSS EVE0105</a>	SRD991	Intelligent Positioner
<a href="#">PSS EVE0107</a>	SRI990	Analog Positioner
<a href="#">PSS EVE0109</a>	SRD960	Universal Positioner
PSS EMO0100	Accessories for devices with HART Protocol	

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