GB USA

Quick-Start Guide Positioner Type 8047

SCHUBERT SALZER

The device may only be assembled and commissioned by specialist employees who are familiar with the assembly, commissioning and operation of this product.
"Specialist employees" in terms of these installation and operation instructions are persons who, based on their professional training, knowledge, experience as well as their knowledge of the relevant standards, are able to evaluate the work assigned to them and recognise potential dangers.

	WARNING Risk of severe damage to property and personal injury as a result of improper installation. ▶ Observe national safety regulations (e.g. VDE 0100) during assembly, commisioning and operation ▶ All work may only be performed provided that the system is not live

	ATTENTION Always note the technical data!!! (see operating instructions and data sheets)

Mounting

The positioner is fixed on the mounting kit by three socket screws. Take care that the range spring is centered properly in the diaphragm washer of the positioner.

Connect output “A” to actuator and supply air (instrument quality) to port “P”.
The 0.2-1 bar set point signal for the pneumatic version to “W” (all ports are G 1/8" or NPT 1/8”).

The input signal is provided by a two-wire cable.
Factory adjustment has been carried through at 4 bar supply pressure. Different supply pressures or other reasons might require a re-adjustment of the positioner.

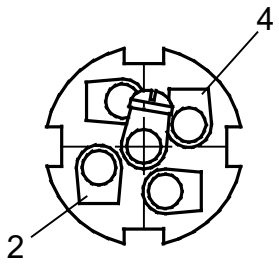
Connection

Connect supply air to port “P” (G1/8" or NPT1/8”).

We recommend oil-, water- and dust-free supply air (instrument air).
The admissible supply pressure range is stated on the type label (6 bar max.).

Factory adjustment of the positioner is carried through for 4 bar supply pressure. Changes in supply pressure might require a readjustment of zero and span settings. This is also true if the valve is mounted in an overhead position (positioner downwards).

Set point signal connection is carried through by a plug connector M12x1.



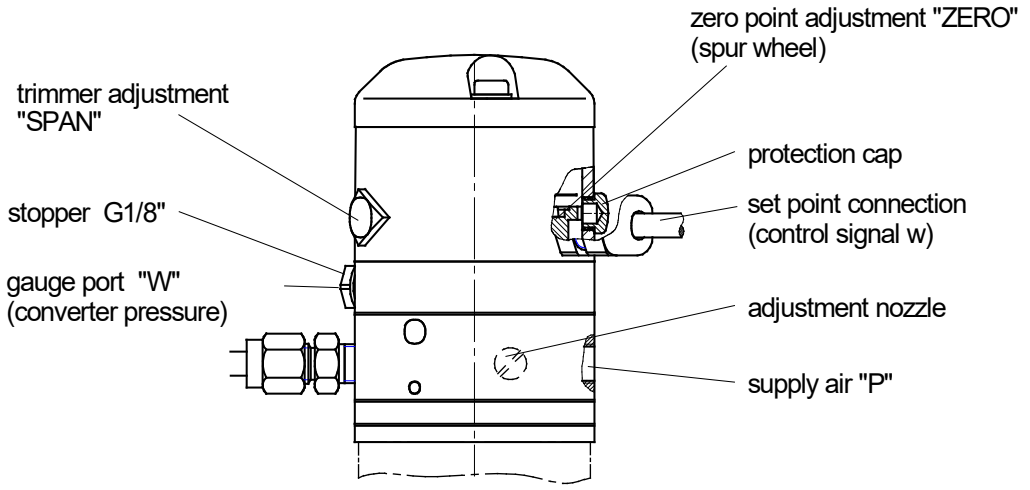
Positive pole (+) connection 2 of plug
Negative pole (-) connection 4 of plug

Mode	Polarity	
	Plug Connection M12x1	**Cable and Cable Bushing Connection**
Rising signal opens valve:	Positive pole (+) connection 2 of plug Minus pole (-) connection 4 of plug	Positive pole (+) brown Negative pole (-) white resp. black
Rising signal closes valve:	Positive pole (+) connection 4 of plug Negative pole (-) connection 2 of plug	Positive pole (+)white resp. black Negative pole (-) brown

By interchanging both input terminals an inversion of the set point signal can be carried through later.

Adjustment

Factory setting of the i/p positioner is stated on the type label.
The electrical set point signal is converted to a signal pressure by an i/p converter. This converted pressure has to be controlled with a pressure gauge screwed to the G1/8" or NPT1/8”-gauge connection. This eases adjustment and trouble shooting.



Adjusting ZERO

- Remove cap at zero adjustment.
- Turn spur-wheel with screw driver:
- ("+" converter pressure rises, "-" converter pressure drops)
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Adjusting SPAN

- Remove bleeder screw.
- Turn trimmer with small screw driver
- ("left" converter pressure rises, "right" converter pressure drops)

Adjustments of „ZERO“ and „SPAN“ have to be carried through alternately for several times as they interfere with each other.

Technical Data (excerpt)

Input signal range	0/4 - 20 mA
Supply air pressure	max. 6 bar
Adjustment (Stroke, zero point)	mechanical
Ambient temperature	-20°C up to +60°C
Pilot energy	3 - 6 bar
Protection class acc. DIN 40050	IP54