



Setpoint Adjuster, active

BSG61

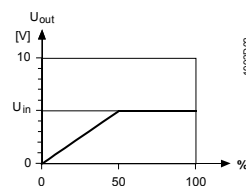
Active, infinitely adjustable setpoint adjuster for setting or limiting a setpoint or positioning signal.

Functions

There are 4 functions to choose from:

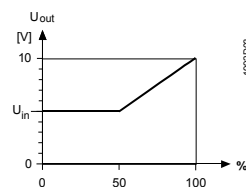
Maximum limitation:

The BSG61 operates as a priority selector. It compares the setpoint with the U_{in} signal received and selects the lower of the 2 signals.



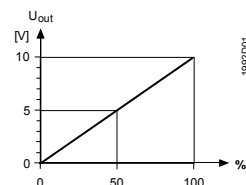
Minimum limitation:

The BSG61 operates as a priority selector. It compares the setpoint with the U_{in} signal received and selects the higher of the 2 signals.



Positioning transmitter:

The BSG61 transmits the set value directly to the controlling element.



Setpoint adjuster:

The BSG61 transmits the set value directly to the connected controller.

Ordering

When ordering, please give quantity, name and type reference.

Example: 2 setpoint adjusters BSG61

Mechanical design

Multisectional plastic housing with:

- Printed circuit board carrying the potentiometer and the 4 connection terminals
- Mounting plate with 3 adjustable end-stop pins for mechanical limitation of the setting range
- Setting knob
- Scale (exchangeable)
- Transparent cover plate

Accessories

The BSG61 can be used with a number of different scales. An additional set of printed scales can be ordered using type reference **BSG-Z**. Each of the printed scales listed below is contained in this set twice. This means that the BSG61 can be used with the following types of printed scales:

| Setting range | Measured value |
|---------------|--------------------------------|
| 0...50 °C | Temperature |
| 0...30 °C | Temperature |
| 0...100 °C | Temperature |
| 30...130 °C | Temperature |
| 0...130 °C | Temperature |
| 0...250 °C | Temperature |
| 100...200 °C | Temperature |
| -5...+5 K | Temperature shift |
| -10...+10 K | Temperature shift |
| 0...20 g/kg | Air humidity |
| 0...100 % | Position |
| 0...0.1 bar | Differential pressure, liquids |
| 0...0.2 bar | Differential pressure, liquids |
| 0...0.5 bar | Differential pressure, liquids |
| 0...1 bar | Differential pressure, liquids |
| 0...2 bar | Differential pressure, liquids |
| 0...4 bar | Differential pressure, liquids |
| 0...5 bar | Differential pressure, liquids |
| -1...+9 bar | Differential pressure, liquids |
| 0...10 bar | Differential pressure, liquids |
| 0...16 bar | Differential pressure, liquids |
| 0...20 bar | Differential pressure, liquids |
| -1...24 bar | Differential pressure, liquids |
| 0...25 bar | Differential pressure, liquids |
| 0...40 bar | Differential pressure, liquids |
| 0...20 Pa | Differential pressure, gases |
| -50...50 Pa | Differential pressure, gases |
| 0...100 Pa | Differential pressure, gases |
| 0...200 Pa | Differential pressure, gases |

| Setting range | Measured variable |
|---------------|------------------------------|
| 0...250 Pa | Differential pressure, gases |
| 0...300 Pa | Differential pressure, gases |
| 0...500 Pa | Differential pressure, gases |
| 0...1000 Pa | Differential pressure, gases |
| 0...1500 Pa | Differential pressure, gases |
| 0...2500 Pa | Differential pressure, gases |
| 0...3000 Pa | Differential pressure, gases |
| Blank scale | |

Installation notes

Mounting The BSG61 setpoint adjusters are suited for mounting in a control panel front, control desk or on a concealed conduit box (on the cover plate).

Commissioning notes

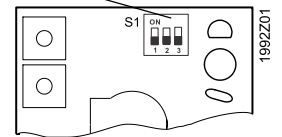
Position of function selector S1

Function

Maximum limitation
 Minimum limitation
 Position transmitter / setpoint adjuster (factory setting)

Dip Switch (1-2-3)*

OFF-OFF-ON
 ON-OFF-OFF
 OFF-ON-OFF



*) The positioning of DIP switch in right picture presents OFF-OFF-OFF. Do not refer to the silk printing on PCB.

Disposal



The device is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Technical data

General unit data

| | |
|----------------------------------|--|
| Operating voltage | AC 24 V, 50...60 Hz or DC 15...24 V |
| Max. voltage tolerance | at AC $\pm 20\%$, at DC $+35\%/-10\%$ |
| Safety extra low-voltage SELV to | EN 60 730-1 |
| Power consumption | 0.3 W |

Materials

| | |
|-------------------------|---------------------|
| Cover and mounting base | Polycarbonate |
| Setting knob | Polycarbonate / ASA |

Color

| | |
|--------------|-------------------------|
| Cover plate | transparent |
| Setting knob | RAL 9003 (signal-white) |

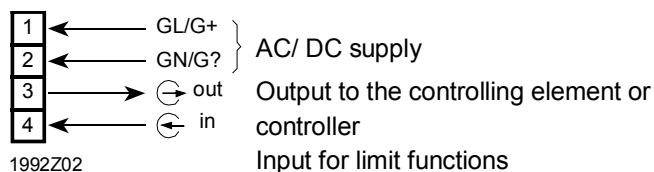
Environmental conditions

| | |
|-----------------------|------------------|
| Operation | To IEC 60721-3-3 |
| Climatic conditions | class 3K5 |
| Temperature (housing) | -5...+55 °C |
| Humidity (housing) | 5...95 % r. h. |
| Transport | to IEC 60721-3-2 |
| Climatic conditions | class 2K3 |

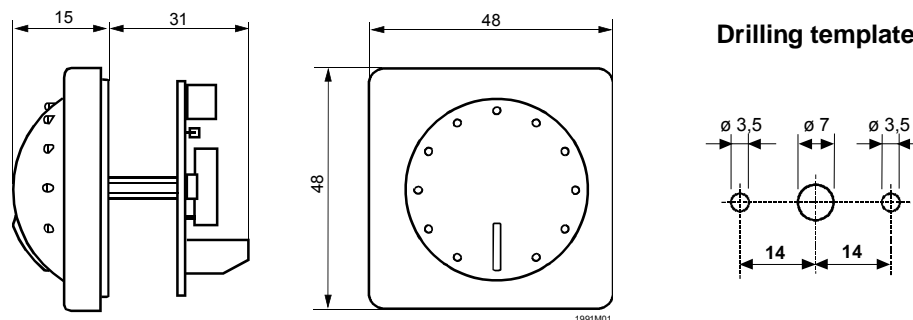
| | | |
|-----------------------|---|--|
| | Temperature | -25...+70 °C |
| | Humidity | <95 % r. h. |
| | Mechanical environmental conditions | class 2M2 |
| Norms and standards | EU Conformity (CE) | CE1T1992xx *) |
| | Safety class | III to EN 60 730-1 |
| | Degree of protection (built-in) | IP42 to EN 60 529 |
| | Environmental Compatibility | The product environmental declaration CE1E1992 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal). |
| Input | Input voltage | DC 0...10 V |
| | Input resistance | 100 kOhm ± 5 % |
| Output | Output signal | DC 0 ...10 V |
| | Output current | I _{Source} ≤ 1.0 mA I _{Sink} ≤ 1.5 mA |
| Electrical connection | Screw terminals for a cross-sectional area of | max. 2.5 mm ² |
| Max. cable lengths | Between BSG61 and controller | |
| | 0.25 mm ² copper | 40 m |
| | 0.50 mm ² copper | 75 m |
| | 1.0 mm ² copper | 110 m |
| Weight | Incl. package | 0.06 kg |

*) The documents can be downloaded from <http://siemens.com/bt/download>.

Connection terminals



Dimensions



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