

## Electronic transmitter, active

## BSG-100

for positioning and positioning limit control



**Active electronic positioning transmitter used for adjustment or limit control of a setpoint or positioning signal in the INTEGRAL RS and PRONTO IRC control ranges.**

### Functions

The BSG-100 electronic positioning transmitter is an active, continuously variable signal transmitter.

The following functions can be selected:

- Maximum limit control:* BSG-100 compares the setpoint with the signal received, and selects the lower of the two signals.
- Minimum limit control:* BSG-100 compares the setpoint with the signal received, and selects the higher of the two signals.
- Positioning transmitter:* BSG-100 transfers the set value directly to the controlled device.
- Setpoint transmitter:* BSG-100 transfers the set value directly to the controller.

### Ordering

When placing an order, please specify the quantity, product description and type code.

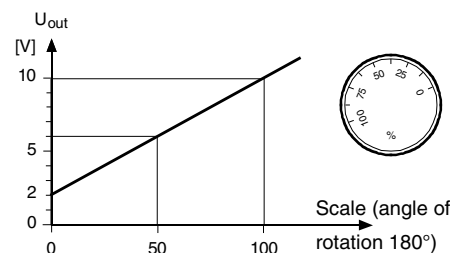
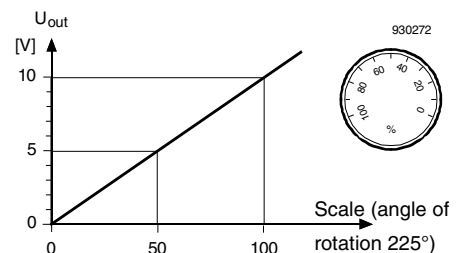
*Example:*

**1 electronic transmitter BSG-100**

### Technical design

The scale plate is printed on both sides, for use as follows:

- On one side: 0 ...100 %, where the angle of rotation 225° corresponds to the DC 0 ...10 V output signal. The unit is delivered with this scale displayed. Suitable for all applications. Adjustment is proportional to the output voltage.
- On the reverse side: 0 ...100 %, where the angle of rotation 180° corresponds to the DC 2 ...10 V output signal. Suitable for AS...D... damper actuators with an operating range of DC 2 ...10 V. The adjustment value (in %) corresponds to the actual damper position.



## Mechanical design

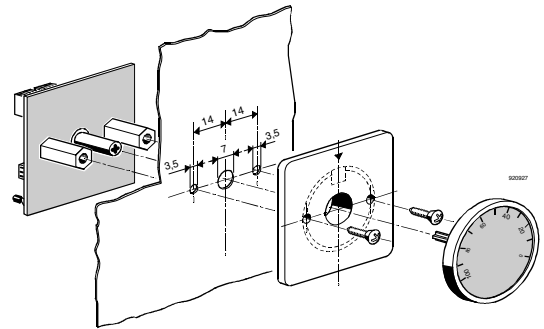
The signal transmitter BSG-100 consists of a multi-part plastic housing comprising:

- Cover plate and rotary knob with scale plate
- Electronic printed circuit board with potentiometer, positioning selector switch S1 and connection terminals.

## Mounting notes

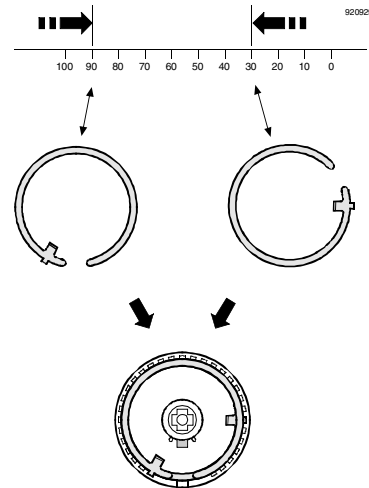
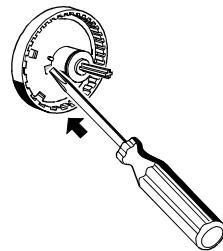
Mounting instructions are supplied with the BSG-100 device (Ref. 35635).

The BSG-100 can be mounted in a surface or flush-mounting box using a suitable enclosure, or mounted in the control panel.



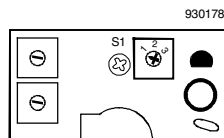
## Commissioning notes

Reverse the scale plate if necessary. Rotation can be limited mechanically to the desired range by moving the 2 adjustable rings at the back of the rotary knob (see mounting instructions).



## Positioning selector switch

Setting the positioning selector switch S1

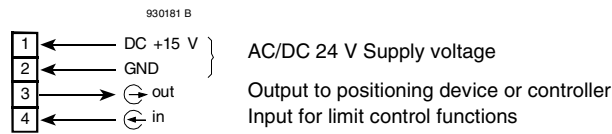


<i>Function</i>	<i>Switch position</i>
Maximum limit control	( 1 )
Minimum limit control	( 3 )
Positioning transmitter	( 2 )
Setpoint transmitter	( 2 )
<i>Factory setting</i>	( 2 )

## Technical design

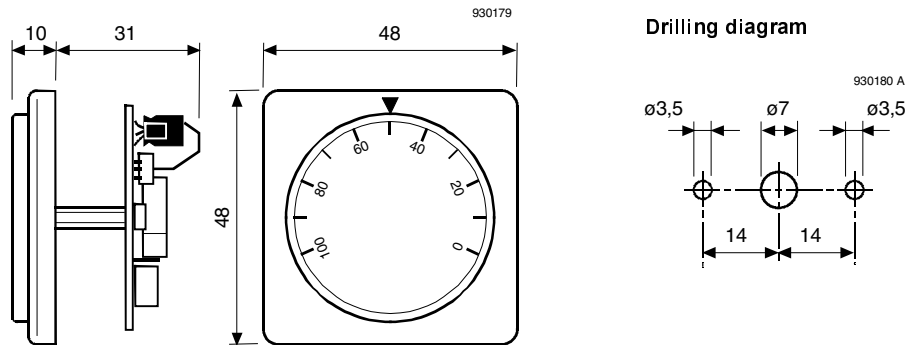
Power supply	With SELV, PELV extra low voltage only
Supply voltage	AC 24 V, 50 ... 60 Hz or DC 15 ... 24 V
– Max. voltage tolerance	± 20 % at AC / +35/–10 % at DC
Power consumption	0.3 W
Input voltage	DC 0 ...10 V
Input resistance	100 k ohms ± 5 %
Output signal	DC 0 ...10 V
Maximum output current	I Source > 1.0 mA I Sink > 1.5 mA
Connection	Screw terminals for max. 2,5 mm <sup>2</sup>
Protection standard (built-in)	IP42 to IEC529
Ambient conditions	
Operation temperature	2 ... 50 °C
Storage temperature	– 25 ... 70 °C
Ambient humidity	< 95 %rh, non-condensing
Dimensions (W x D x H)	48 x 48 x 41 mm
Colours	Scale NCS7005-R20B Cover plate NCS5005-R20B
Conformity	Meets the requirements for CE marking

## Connection terminals



## Dimensions

All dimensions in mm



© 2000 Siemens Building Technologies Ltd.  
Subject to technical changes