

**Product Information**

# Set Point Adjuster SG9648



- Output 0/4..20 mA, 0/2..10 V DC
- Set point adjustment with front buttons or external signals
- Indicating range and decimal point programmable
- Set point output isolated

## Characteristics

The Set point adjuster SG9648 has been designed for generating adjustable set point value signals 0/4..20mA and 0/2..10V DC. Any display value can be assigned to the respective output signal. The operator can work with real values. The adjustment speed is programmable.

## Technical data

**Power supply**  
 Supply voltage : 230 V AC  $\pm 10\%$ ; 115 V AC  $\pm 10\%$ ;  
 24 V AC  $\pm 10\%$  or 24 V DC  $\pm 15\%$

Power consumption : 5 VA

Operating temperature : -20..+55 °C

CE-conformity : EN 61326-1:2013; EN 60664-1:2007

**Input**  
 Control : 0/24 V DC Ri 6.3 k $\Omega$  < 4 V low,  
 >8.5 V high, hysteresis >2.5 V,  
 max. 35 VDC

Transmitter supply : 24 V DC (pnp), Ri approx. 150  $\Omega$ ,  
 max.50 mA

**Display**  
 : LED red, 14.2 mm

Indicating range :  $\pm 9999(0)$  Digit

Additional display : LED 2-digit red, 7 mm  
 (Parameter - and status indicator)

**Output**  
 Relay SPDT : < 250 V AC < 250 VA < 2 A,  
 < 300 V DC < 50 W < 2 A

Transistor : max. 35V AC/DC, max. 100mA,  
 short-circuit-proof

Analog output : 0/4..20 mA burden  $\leq 500 \Omega$ ; 0/2..10 V  
 burden > 500  $\Omega$ , isolated  
 output changes burden dependent

- Accuracy : 0.1 %; TK 0.01 %/K

**Case**  
 : panel case DIN 96x48 mm,  
 material PA6-GF; UL94V-0

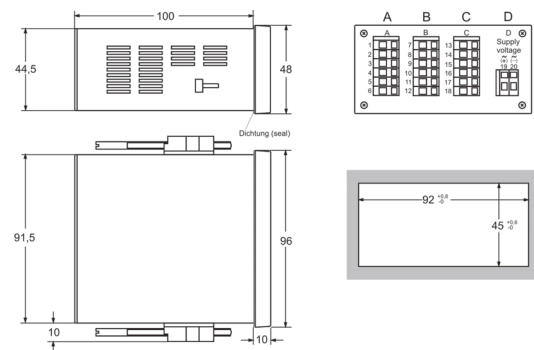
Dimensions : front 96x48 mm, mounting depth 100 mm,

Weight : max. 390 g

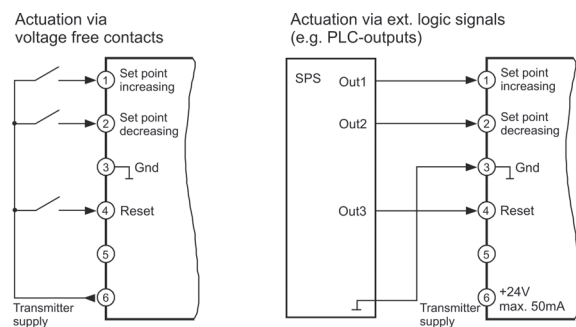
Electrical connection: clamp terminals, 0.08..1.5 mm<sup>2</sup>  
 AWG28..AWG14

Protection class : front IP65, terminals IP20, acc. to BGV A3

## Dimensions



## Connection diagram



## Ordering code

SG9648 -  1. -  2. -  3. -  4. -  5. -  6. -  7.

<b>1. Terminal strip A</b>	
0	not installed, set point adjustment via front buttons, adjustment speed dynamically, (Power-on)-reset to the last stored value or programmed reset value
1	as 0, but additional 2 control inputs for ext. adjustment, ext. reset to a programmed reset value adjustment speed dynamically
<b>2. Terminals strip B</b>	
00	not installed
2R	2 relay outputs
2T	2 transistor outputs
<b>3. Terminal strip C (standard)</b>	
AO	analog output 0/4..20 mA, 0/2..10 V
<b>4. Terminal strip D supply voltage</b>	
0	230 V AC $\pm 10\%$ 50-60Hz
1	115 V AC $\pm 10\%$ 50-60Hz
4	24 V AC $\pm 10\%$ 50-60Hz
5	24 V DC $\pm 15\%$
<b>5. Options</b>	
00	without option
<b>6. Unit appears on the front panel</b>	
<b>7. Additional text above the display (3x90 mm HxW)</b>	