DATA SHEET

STS 4

Produal

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STS 4 ELECTRIC POWER CONTROLLER

STS 4 is designed to control electric power by using one time proportional step via a solid state relay, and 0…3 contactor steps via relays. STS 4 is controlled by a 0…10 V input signal from the temperature controller.

The number of the steps (1…4) and the input function direction is selected by jumpers inside the device.

The increasing input signal causes the increasing of the time proportional output (D1) and switches the relay outputs (D2…D4) ON as follows:

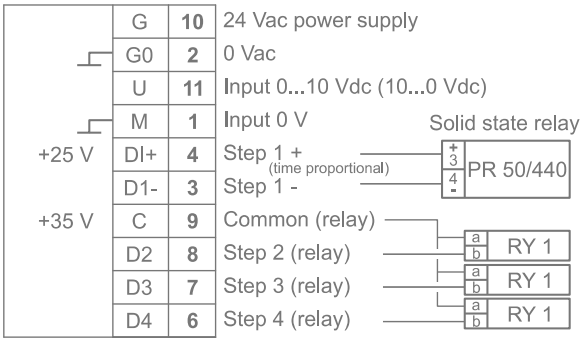
Input	1-step control	2-step control	3-step control	4-step control
0-2,5 V	D1= 0-25 %	D1= 0-50 % D2=off	input=0-3,3 V D1=0-100 % D2=off D3=off	D1=0-100 % D2=off D3=off D4=off
2,5-5 V	D1= 25-50 %	D1= 50-100 % D2=off	input = 3,3-6,6 V D1=0-100 % D2=on D3=off	D1=0-100 % D2=on D3=off D4=off
5-7,5 V	D1= 50-75 %	D1= 0-50 % D2=on	input = 6,6-10 V D1=0-100 % D2=on D3=on	D1=0-100 % D2=on D3=on D4=off
7,5-10 V	D1= 75-100 %	D1= 50-100 % D2=on	---	D1=0-100 % D2=on D3=on D4=on

To achieve the best control results, the power of each step should be identical, also with the time proportional step.

Settings

Number of steps	S1	S2	Input function	S3
1 step	●●	●●	Direct (0…10 V)	●●
2 steps	■	●●	Reverse (10…0 V)	■
3 steps	●●	■		
4 steps	■	■		

Wiring





Technical data:

Supply	24 Vac, < 1 VA
Input (control signal)	0...10 V, < 40 µA
Solid state relay output	25 Vdc, < 50 mA
Time proportional cycle	about 20 s
Relay outputs	35 Vdc, < 50 mA
Dimensions (w x h x d)	35 x 79 x 95 mm

Ordering guide:

Model	Product number	Description
STS 4	1140020	electric power controller
PR 50/440	1140030	solid state relay
RY 1	1183020	relay

Products fulfil the requirements of directives 2014/35/EU and 2014/30/EU and are in accordance with the standards EN60947, EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).