

Modulating short-stroke actuator for the motorisation of Siemens short-stroke globe valves in HVAC systems

- Actuating force 500 N
- Nominal voltage AC/DC 24 V
- Control modulating 0...10 V
- Stroke 5.5 mm



Technical data

<b>Electrical data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V / DC 21.6...28.8 V
	Power consumption in operation	1.5 W
	Power consumption for wire sizing	3 VA
	Connection supply / control	Cable 1 m, 4 x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
<b>Functional data</b>	Actuating force motor	500 N
	Operating range Y	0...10 V
	Input Impedance	100 kΩ
	Operating range Y variable	2...10 V
	Position feedback U	0...10 V
	Position feedback U note	Max. 1 mA
	Position accuracy	±5%
	Manual override	temporary and permanent gear disengagement with rotary knob on the housing
	Stroke	5.5 mm
	Actuator-valve interface	G 3/4"
	Running time motor	35 s / 5.5 mm
	Duty cycle value	75% (= active time 35 s / operating time 47 s)
	Sound power level, motor	45 dB(A)
Position indication	Reversible scale plate	
<b>Safety data</b>	Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)
	Degree of protection IEC/EN	IP40
	EMC	CE according to 2014/30/EU
	Mode of operation	Type 1
	Rated impulse voltage supply / control	0.8 kV
	Control pollution degree	3
	Ambient temperature	0...50°C
	Storage temperature	-30...80°C
	Ambient humidity	Max. 95% r.H., non-condensing
Servicing	maintenance-free	
<b>Weight</b>	Weight	0.51 kg

Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The actuator is to be protected against moisture. It is not suitable for outdoor applications.
- The device does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

**Product features**

- Mode of operation** The actuator is connected with a standard modulating signal of 0...10 V and drives to the position defined by the positioning signal.
- Simple direct mounting** Straightforward direct mounting on the valve with one knurled nut.
- Manual override** Manual override with lever possible. Temporary gear disengagement by pushing the rotary knob. Permanent disengagement by pushing and simultaneous rotating the rotary knob clockwise 90°.
- High functional reliability** The actuator is overload protected and automatically stops when the end stop is reached.

**Electrical installation**



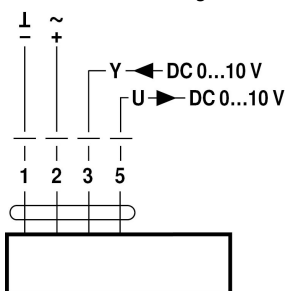
Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data.

The actuator is activated with a standard modulating signal 0...10 V.

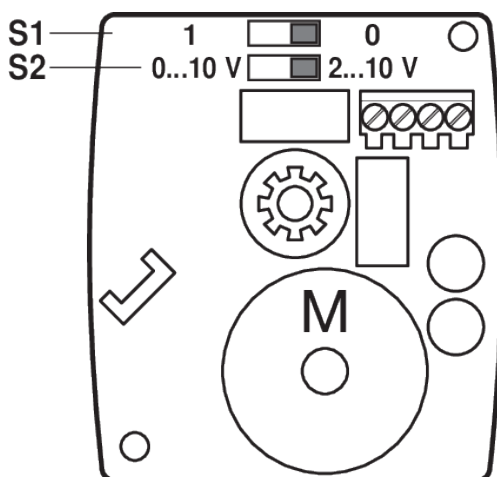
**Wiring diagrams**

AC/DC 24 V, modulating



- Cable colours:**  
 1 = black  
 2 = red  
 3 = white  
 5 = orange

**Operating controls and indicators**



S1		
0 *		Y = 0%
1		Y = 0%

S2	
2 ... 10 V *	
0 ... 10 V	

## Dimensions

Dimensional drawings

