

Rotary actuator in connection with a mounting kit for the motorisation of the most common mixing valves in HVAC systems

- Torque motor 5 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 0...10 V
- Position feedback 0...10 V
- Running time motor 35 s



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Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V	
	Power consumption in operation	1.5 W	
	Power consumption for wire sizing	3 VA	
	Connection supply / control	Cable 1 m, 4x 0.75 mm ²	
	Parallel operation	Yes (note the performance data)	
Functional data	Torque motor	5 Nm	
	Operating range Y	010 V	
	Operating range Y note	Operating range selectable 010 V or 210 V	
	Position feedback U	010 V	
	Position accuracy	±5%	
	Direction of motion motor	clockwise rotation	
	Manual override	temporary and permanent gear train disengagement with rotary knob on the housing	
	Angle of rotation	90°	
	Running time motor	35 s / 90°	
	Sound power level, motor	45 dB(A)	
	Duty cycle value	75% (= active time 35 s / operating time 47 s)	
	Position indication	Reversible scale plate	
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)	
	Degree of protection IEC/EN	IP40	
	EMC	CE according to 2014/30/EU	
	Type of action	Type 1	
	Rated impulse voltage supply / control	0.8 kV	
	Pollution degree	3	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	050°C [32122°F]	
	Storage temperature	-3080°C [-22176°F]	
	Servicing	maintenance-free	
Weight	Weight	0.38 kg	
Housing colours	Housing cover	orange	
	Housing base	orange	



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.
- The actuator is to be protected against moisture. It is not suitable for outdoor applications.
- To calculate the torque required, the specifications supplied by the mixing valve manufacturer must be observed.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The installer must check for correct principle of operation after installation.
- The switch for changing the direction of rotation and operating range may only be adjusted by authorised specialists. The direction of rotation may not be changed when frost protection control is applied.
- 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.
- Caution: Low voltage!

Product features

Operating mode

The actuator is connected with a standard control signal of 0...10 V and drives to the position defined by the control signal.

Simple direct mounting

Simple direct mounting with only one screw. The stud bolt included in delivery serves as an anti-rotation device. The mounting orientation can be freely selected in steps of 90°.

Manual override

Manual override with lever possible. Temporary gear train 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.

The actuator switches off for seven seconds in the case of blocking, then attempts to restart. If the blocked condition persists, the actuator attempts to restart once every two minutes a total of 15 times and subsequently only once every two hours.

Accessories

Mechanical accessories

Description	Туре
Mounting kit for LK mixing valve	MS-NRA
Mounting kit for Barberi mixing valves	MS-NRB
Mounting kit for Honeywell/Centra DRMA mixing valves	MS-NRC
Mounting kit for Honeywell/Centra DRU mixing valves	MS-NRC1
Mounting kit for mixing valves with 12 mm round shaft	MS-NRE
Mounting kit for ESBE mixing valves VRG/VRB/VRH	MS-NRE6
Mounting kit for Hora mixing valves	MS-NRH
Mounting kit for Siemens/Landis&Stäfa mixing valves VCI/VBG/VBF	MS-NRL
Mounting kit for Lazzari mixing valves	MS-NRLA
Mounting kit for Lovato mixing valves	MS-NRLO
Mounting kit for Satchwell MB mixing valves	MS-NRS
Mounting kit for Satchwell MBF mixing valves	MS-NRSF

Electrical installation



Supply from isolating transformer.

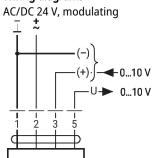


Electrical installation

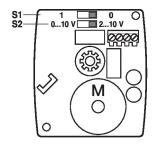
Wire colours:

- 1 = black
- 2 = red
- 3 = white
- 5 = white

Wiring diagrams



Operating controls and indicators



0 *	750	Y = 0%	
1	14	Y = 0%	
S2			
2 10 V *	10V 10V Y		
0 10 V	10V 0 10V Y		

Dimensions

