

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

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



### **Technical data**

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	2.5 W
	Power consumption for wire sizing	4 VA
	Connection supply / control	Cable 1 m, 4x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	10 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	Туре 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	0.42 kg
Housing colours	Housing cover	orange
-	Housing base	orange



Safety notes		
Ĺ	<ul> <li>This device has been designed for use in stationary heating, ventilations systems and must not be used outside the specified field of applications or in any other airborne means of transport.</li> <li>The actuator is to be protected against moisture. It is not suitable for To calculate the torque required, the specifications supplied by the meanufacturer must be observed.</li> <li>Only authorised specialists may carry out installation. All applicable learnstallation regulations must be complied with during installation.</li> <li>The installer must check for correct principle of operation after installer. The switch for changing the direction of rotation and operating range by authorised specialists. The direction of rotation may not be change protection control is applied.</li> <li>The device does not contain any parts that can be replaced or repaired.</li> <li>The device contains electrical and electronic components and must no household refuse. All locally valid regulations and requirements must a caution: Low voltage!</li> </ul>	on, especially in aircraft outdoor applications. iixing valve egal or institutional lation. e may only be adjusted ed when frost ed by the user. ot be disposed of as
Product features		
Operating mode	The actuator is connected with a standard control signal of 010 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 e	nd stop is reached.
	The actuator switches off for seven seconds in the case of blocking, then attempts to restart. In 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 Mounting kit for Barberi mixing valves Mounting kit for Honeywell/Centra DRMA mixing valves Mounting kit for Honeywell/Centra DRU mixing valves Mounting kit for mixing valves with 12 mm round shaft Mounting kit for ESBE mixing valves VRG/VRB/VRH Mounting kit for Hora mixing valves Mounting kit for Siemens/Landis&Stäfa mixing valves VCI/VBG/VBF Mounting kit for Lazzari mixing valves Mounting kit for Lovato mixing valves Mounting kit for Satchwell MB mixing valves Mounting kit for Satchwell MBF mixing valves	MS-NRA MS-NRB MS-NRC MS-NRE MS-NRE6 MS-NRH MS-NRL MS-NRLA MS-NRLO MS-NRS MS-NRSF



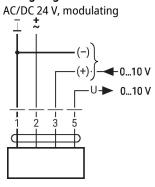
Supply from isolating transformer.



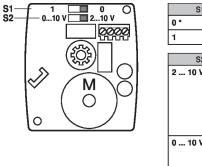
#### **Electrical installation**

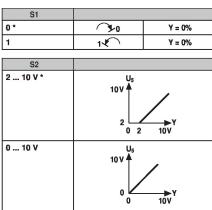
- Wire colours:
- 1 = black
- 2 = red
- 3 = white
- 5 = white

# Wiring diagrams



### Operating controls and indicators





## Dimensions

