

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 24 V
- Control 3-point
- Running time motor 70 s



## Technical data

<b>Electrical data</b>	Nominal voltage	AC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V
	Power consumption in operation	1.5 W
	Power consumption for wire sizing	1.5 VA
	Connection supply / control	Cable 1 m, 3x 0.75 mm <sup>2</sup>
	Parallel operation	No
<b>Functional data</b>	Torque motor	5 Nm
	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	70 s / 90°
	Sound power level, motor	40 dB(A)
	Duty cycle value	75% (= active time 70 s / operating time 93 s)
	Position indication	Reversible scale plate
	<b>Safety data</b>	Protection class IEC/EN
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		0...50°C [32...122°F]
Storage temperature		-30...80°C [-22...176°F]
Servicing		maintenance-free
<b>Weight</b>		Weight
<b>Housing colours</b>	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 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**

<b>Operating mode</b>	The actuator is activated with a 3-point signal.
<b>Simple direct mounting</b>	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°.
<b>Manual override</b>	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°.
<b>High functional reliability</b>	The actuator switches off automatically when the end stops are reached.

**Accessories**

Electrical accessories	Description	Type
	Auxiliary switch 1x SPDT for 3-point HT actuators with cable connection	SNR
Mechanical accessories	Description	Type
	Mounting kit for LK mixing valve	MS-NRA
	Mounting kit for Barberi mixing valves	MS-NRB
	Mounting kit for Honeywell/Centra DR..MA 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.**

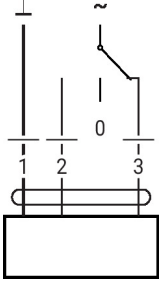
**Wire colours:**

- 1 = black
- 2 = white
- 3 = white

Electrical installation

Wiring diagrams

AC 24 V, 3-point



1	2	3	
			stop

Dimensions

