

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 230 V
- Control 3-point
- with integrated auxiliary switch
- Running time motor 140 s



Picture may differ from product

Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198...264 V
	Power consumption in operation	3.5 W
	Power consumption for wire sizing	3.5 VA
	Auxiliary switch	1x SPDT, 0...100%
	Switching capacity auxiliary switch	6 A (2 A inductive), AC 250 V (II, reinforced insulation)
	Switching points auxiliary switch	Switching point adjustable 0...100%
	Connection supply / control	Cable 1 m, 3x 0.75 mm ²
	Connection auxiliary switch	Cable 1 m, 3x 0.75 mm ²
	Parallel operation	No
Functional data	Torque motor	10 Nm
	Direction of motion motor	clockwise rotation (cw)
	Manual override	temporary and permanent gear train disengagement with rotary knob on the housing
	Angle of rotation	90°
	Running time motor	140 s / 90°
	Sound power level, motor	37 dB(A)
	Duty cycle value	75% (= active time 140 s / operating time 187 s)
	Position indication	Reversible scale plate
Safety data	Protection class IEC/EN	II, reinforced insulation
	Protection class auxiliary switch IEC/EN	II, reinforced insulation
	Degree of protection IEC/EN	IP40
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Type of action	Type 1.B
	Rated impulse voltage supply / control	4 kV
	Rated impulse voltage auxiliary switch	4 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]

Safety data	Servicing	maintenance-free
Weight	Weight	0.53 kg
Housing colours	Housing cover	orange
	Housing base	black

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: Mains voltage!

Product features

Operating mode	The actuator is activated with a 3-point signal.
Simple direct mounting	Simple direct mounting with only one screw. The stud bolt included in delivery serves as an anti-rotation mechanism. 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 switches off automatically when the end stops are reached.

Accessories

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

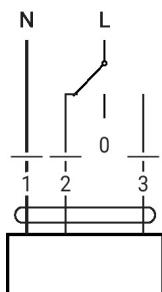
Electrical installation



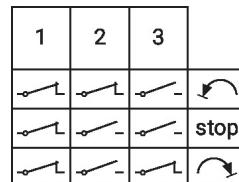
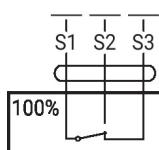
Caution: Mains voltage!

Electrical installation

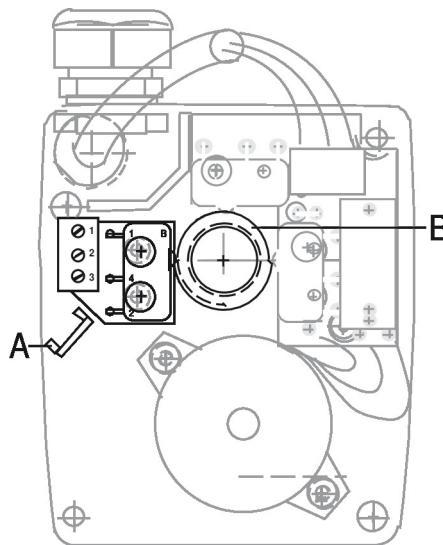
AC 230 V, 3-point



Auxiliary switch



Operating controls and indicators



Auxiliary switch settings

Note: Perform settings on the actuator only in deenergised state.

For the auxiliary switch position settings, carry out points ① to ④ successively.

① Remove housing cover

Dismounting the housing cover: Loosen the central screw at the black lever and remove the two Phillips screws of the housing cover.

② Gear train disengagement

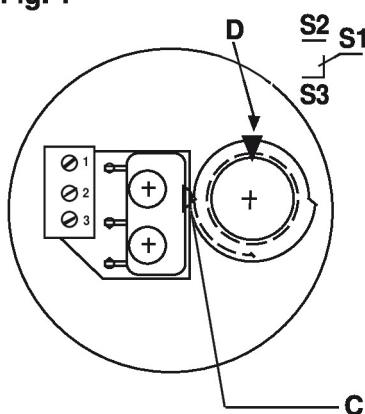
Press gear train disengagement **A** down and rotate the actuator using the manual adjustment handle in the desired control position of the auxiliary switch.

③ Cam ring

Insert cam ring **B** in accordance with Fig. 1 in such a way that the switching point **C** just actuates the switch. Connection S1 – S2 is switched (arrow marking **D** is then at the top).

④ Mount housing cover

Fig. 1



Dimensions

