

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
- Running time motor 280 s


**Technical data**

|  |                                   |  |
|--|-----------------------------------|--|
| <b>Electrical data</b>                 | Nominal voltage                   | AC 230 V   |
|  | Nominal voltage frequency         | 50/60 Hz   |
|  | Nominal voltage range             | AC 198...264 V   |
|  | Power consumption in operation    | 2.5 W  |
|  | Power consumption for wire sizing | 2.5 VA   |
|  | Connection supply / control       | Terminals 4 mm <sup>2</sup> (cable ø6...8 mm, 4-wire) 4 mm <sup>2</sup>          |
|  | Parallel operation                | No   |
| <b>Functional data</b>                 | Torque motor                      | 10 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                | 280 s / 90°  |
|  | Duty cycle value                  | 75% (= active time 280 s / operating time 373 s)                                 |
|  | Sound power level, motor          | 35 dB(A)   |
|  | 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   |
| Low voltage directive                  |                                   | CE according to 2014/35/EU   |
| Type of action                         |                                   | Type 1   |
| Rated impulse voltage supply / control |                                   | 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]   |
| Servicing                              |                                   | maintenance-free   |
| <b>Weight</b>                          | Weight                            | 0.43 kg  |
|  | <b>Housing colours</b>            | Housing cover  |
| 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 during installation.
- The correct functioning of the strain relief for the cable in the actuator housing is to be checked.
- 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: Power supply voltage!

**Product features**

|                                    |   |
|------------------------------------|---|
| <b>Mode of operation</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 position 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.   |

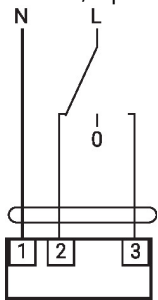
**Accessories**

| <b>Electrical accessories</b> | <b>Description</b>  | <b>Type</b> |
|-------------------------------|---|-------------|
|                               | Auxiliary switch 1 x SPDT for 3-point HT actuators with screw terminals | SNR2        |
| <b>Mechanical accessories</b> | <b>Description</b>  | <b>Type</b> |
|                               | 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: Power supply voltage!**

**Wiring diagrams**  
AC 230 V, 3-point



| 1 | 2 | 3 |      |
|---|---|---|------|
|   |   |   |      |
|   |   |   |      |
|   |   |   | stop |
|   |   |   |      |

**Dimensions**

