

MD10 SR

The MD10 SR is a compact spring return damper actuator for the operation of ventilation dampers up to 2m² in building service installations



Specification

| | |
|----------------------------|--|
| Motor Torque | Min. 10Nm @ Nominal Voltage |
| Spring Return | Min. 10Nm |
| Running Time, Motor | |
| Modulating | ≤150 s |
| On/off | ≤75 s |
| Spring Return | ≤20 s |
| Control Signal, modulating | |
| Range of Operation (X) | 2...10 Vdc |
| Input Resistance | 100 kΩ |
| Position Feedback (Y) | 2...10 Vdc, max. 0.5mA |
| Position accuracy | +/- 5% |
| Cable Size | 1m |
| -24M, | 4 x 0.75 mm ² |
| -T, -24T | 2 x 0.75 mm ² |
| S2 versions | 2+6 x 0.75 mm ² |
| Direction of Rotation | |
| Motor | Reversible with Switch I/O |
| Spring return | via mounting orientation, L / R |
| Manual Override | 5mm Hex key crank, supplied plus interlocking switch |

| | |
|------------------------------|--------------------------------|
| Adjustable angle of rotation | 0...Max 95° |
| Position indication | Mechanical |
| Protection Class | |
| 24 V versions | III Extra low Voltage |
| 230 V Versions | II Totally insulated |
| Degree of Protection | IP54 |
| Ambient Humidity | 95% r.h. Non condensing |
| Environmental | |
| Operation Temperature | -30°C...+ 50°C |
| Storage (non operation) | -40°C...+ 80°C |
| Sound power level | |
| Motor | ≤40 dB (mod.) 45dB (on/off) |
| Spring return | ≤62 dB |
| Service Life | Min.60,000 emergency positions |
| Maintenance | Maintenance free |
| Weight | 2.1Kg |

| Part number | Type Designation | Torque Nm | Power Supply | Power Consumption | | | Control Signal |
|-------------|---------------------------|-----------|-----------------------------|-------------------|---------|-----------------|----------------|
| | | | | In Operation | At Rest | For wire sizing | |
| MD10SR-T | MD10 SR-24/230T 1M54 00 | 10 | 24...240 Vac / 24...125 Vdc | 6W | 2.5W | 9.5VA | On/Off |
| MD10SR-TS | MD10 SR-24/230FTS 1M54 00 | 10 | 24...240 Vac / 24...125 Vdc | 6W | 2.5W | 9.5VA | On/Off |
| MD10SR-24T | MD10 SR-24T 1M54 00 | 10 | 24 Vac/Vdc | 6W | 2.5W | 8.5VA | On/Off |
| MD10SR-24TS | MD10 SR-24TS 1M54 00 | 10 | 24 Vac/Vdc | 6W | 2.5W | 8.5VA | On/Off |
| MD10SR-24M | MD10 SR-24M 1M54 00 | 10 | 24 Vac/Vdc | 3.5W | 2.5W | 5.5VA | 2...10 V Mod. |

For damper actuator accessories see page 78.

Spindle Clamp

| Damper Spindle Attachment | | Spindle Length | Spindle Diameter | Spindle Diameter | Spindle Diameter |
|---------------------------|----------------|----------------|------------------|------------------|------------------|
| | | | ● | ■ | ◆ |
| Clamp on Top | With Insert | ≥85 mm | 10...22 mm | 10 mm | 14...25.4 mm |
| | Without Insert | | 19...25.4 mm | 12...18 mm | |
| Clamp on Bottom | With Insert | ≥15 mm | 10...22 mm | 10 mm | 14...25.4 mm |
| | Without Insert | | 12...18 mm | 19...25.4 mm | |