



**Dampers up to approx. 0.8 m<sup>2</sup>**

**Modulating damper actuator (AC/DC 24 V)**

**Control DC 0...10 V and position feedback DC 2...10 V**

**Application**

The type LM24-SR-F is intended for the operation of air control dampers in ventilation and air-conditioning systems

**Mode of operation**

The actuator is controlled by a standard DC 0...10 V signal and runs to whatever position is specified by the signal. The purpose of measuring voltage U is to provide 0...100% electrical indication of damper position and to act as a master-slave control signal for other actuators.

**Product features**

**Simple mounting**

The actuator, with its hollow shaft, is placed over the 8 mm square spindle of the damper and secured by two screws.

**Steplessly adjustable angle of rotation** by integral potentiometer. Range matching of the working range and measuring signal U is performed automatically by the actuator.

**Manual operation** by self-resetting push-button when necessary (the gearing is disengaged while the pushbutton is held depressed).

**High functional reliability**

The actuator is overload-proof, needs no limit switches and halts automatically at the end stops.

**Electrical accessories**

- SG..24 Positioners
- ZAD24 Digital position indicator

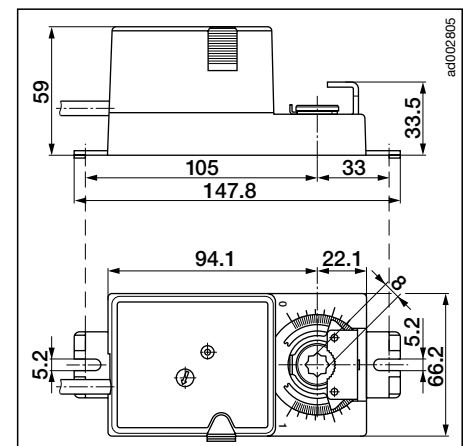
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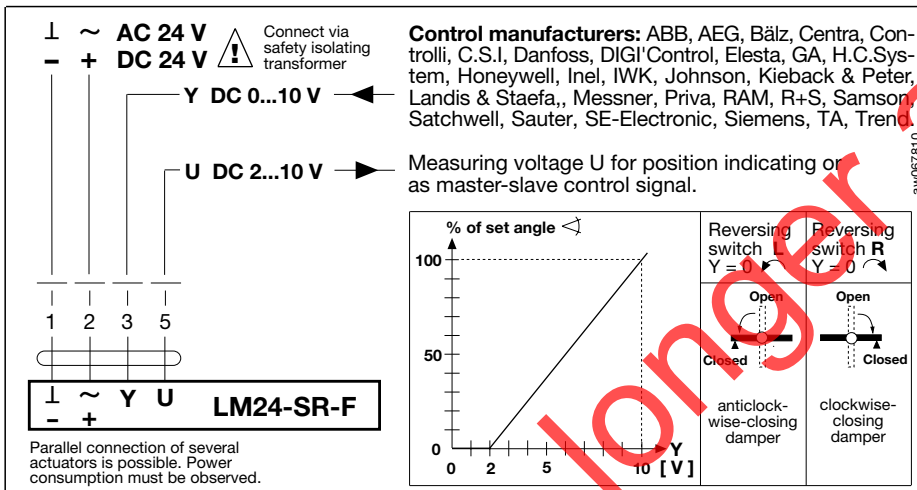
**Important**

Read the notes about the use and torque requirements of the damper actuators on page 2.

**Dimensions**



**Wiring diagram**



Technical data	LM24-SR-F
Nominal voltage	AC 24 V 50/60 Hz, DC 24 V
Nominal voltage range	AC 19.2...28.8 V, DC 21.6...26.4 V
For wire sizing	4 VA
Power consumption	2 W
Connecting cable	1 m long, 4 x 0.75 mm <sup>2</sup>
Control signal Y	DC 0...10 V @ input resistance = 100 kΩ
Operating range	DC 2...10 V (for set angle of rotation)
Measuring voltage U	DC 2...10 V @ ≤ 0.5 mA (for set angle of rotation)
Synchronism tolerance	± 5%
Direction of rotation	selected with L/R switch
(at Y = 0 V)	at switch position L ↶ resp. R ↷
Manual operating	Pushbutton, self resetting
Torque	min. 4 Nm (at rated voltage)
Angle of rotation	max. 95° (adjustable with potentiometer 20...100%)
Damper rotation	8 mm form-fit
Running time	80...110 s (0...4 Nm)
Sound power level	max. 35 dB (A)
Position indication	mechanical
Protection class	⚡ (safety low voltage)
Degree of protection	IP 54 (bottom cable entry)
Ambient temperature range	-30...+50 °C
Non-operating temperature	-40...+80 °C
Humidity test	to EN 60335-1
EMC	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC
Maintenance	maintenance free
Weight	610 g

Subject to technical changes / 01.00