



ap021901

Dampers up to approx. 0.4 m²
Modulating damper actuator (AC/DC 24 V)
Control DC 0...10V and position feedback DC 2... 10V
Running time < 35 s

Application

The type LMC24-SR 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...10V 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 direct mounting on the damper spindle by universal spindle clamp. An anti-rotation device is supplied to prevent unwanted rotation of the whole unit.

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 pushbutton 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 (se Doc. 2.Z-...)

- SG..24 Positioners
- ZAD24 Digital position indicator

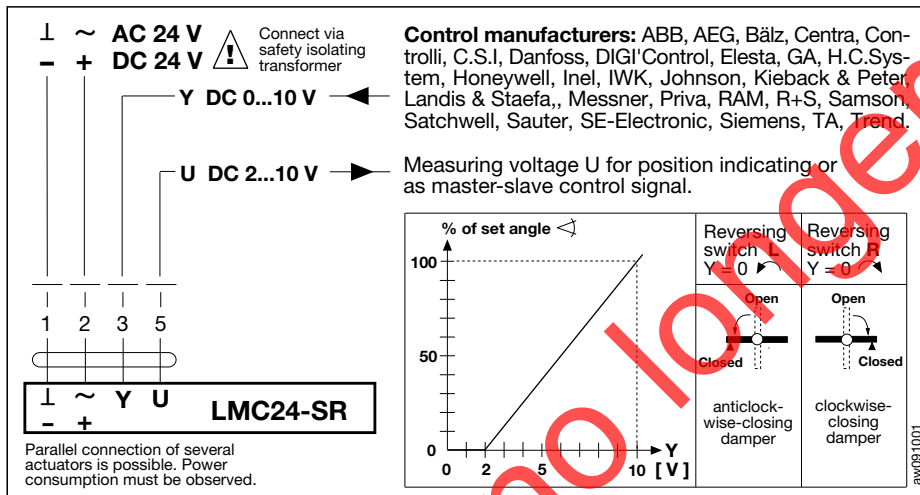
Mounting instructions page 9

Control and monitoring functions, page 10

Important

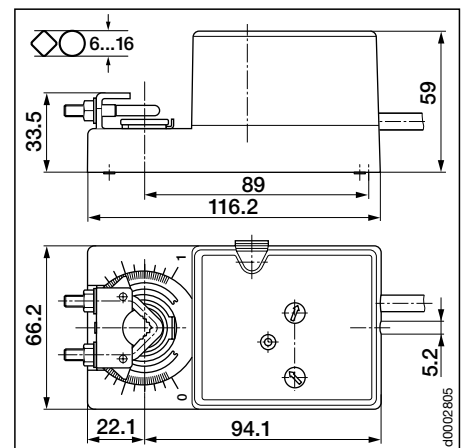
Read the notes about the use and torque requirements of the damper actuators on page 2.

Wiring diagram



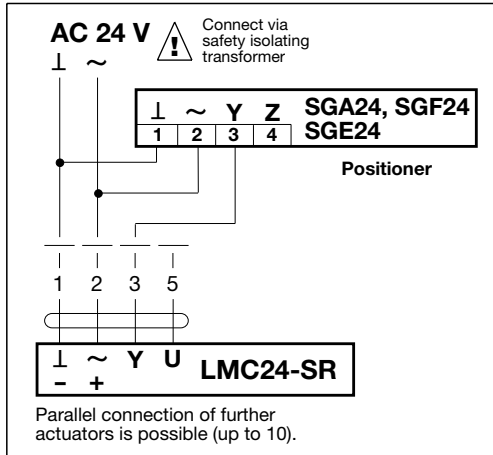
Technical data	LMC24-SR
Nominal voltage	AC 24 V ~ 50/60 Hz, DC 24 V
Nominal voltage range	AC 19.2...28.8 V, DC 21.6...26.4 V
For wire sizing	4.5 VA
Power consumption	2.5 W
Connecting cable	1 m long, 4 x 0.75 mm ²
Control signal Y	DC 0...10V @ input resistance = 100 kΩ
Operating range	DC 2...10V (for set angle of rotation)
Measuring voltage U	DC 2...10V @ ≤ 0.5 mA (for set angle of rotation)
Synchronism tolerance	± 5%
Direction of rotation (at Y = 0 V)	selected with L/R switch at switch position L ↻ resp. R ↻
Manual operating	Pushbutton, self resetting
Torque	min. 2 Nm (at rated voltage)
Angle of rotation	max. 95° (adjustable with potentiometer 20...100%)
Running time	25...35 s for < 95° (0...2 Nm)
Sound power level	max. 45 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	620 g

Dimensions

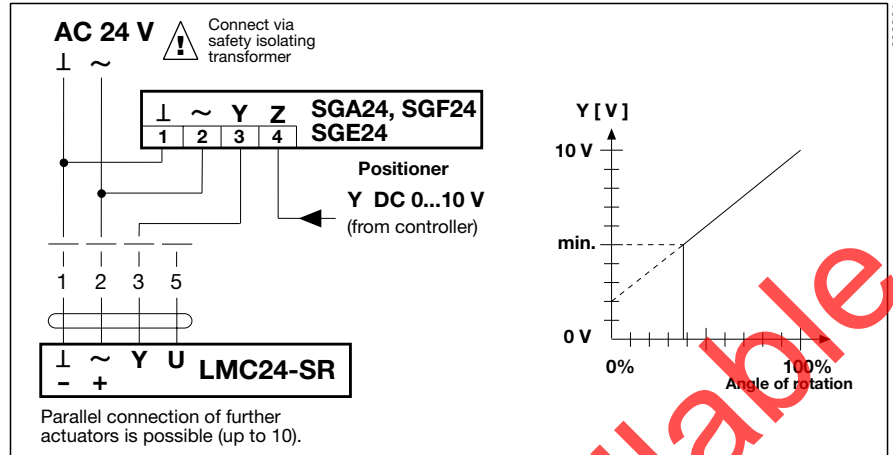


Subject to technical changes / 01.00

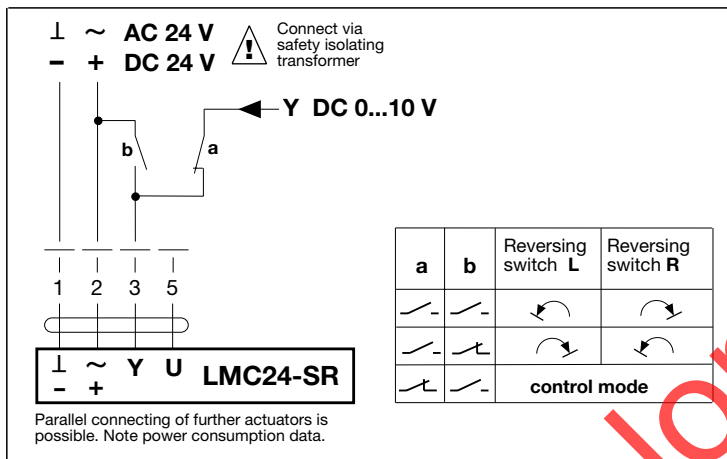
Remote control 0...100%



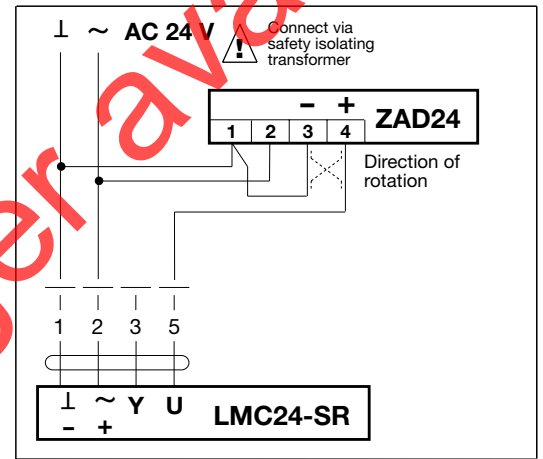
Minimum position



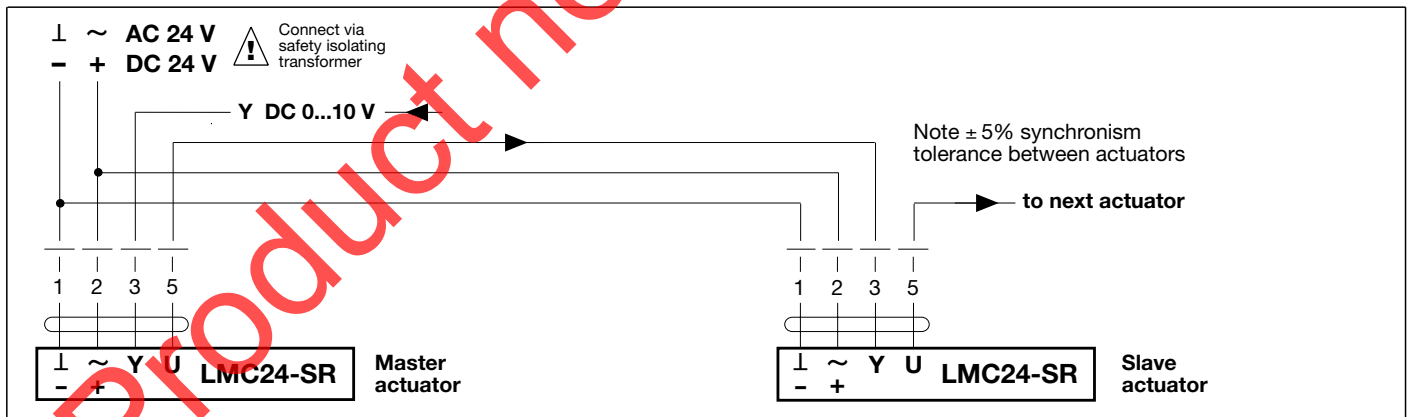
Override control



Position indication



Master-slave control (depending on position)



Function monitoring

