LM24, LM24-S damper actuators 4 Nm

BELIMO®

p0001707

Dampers up to approx. 0.8 m²

Open/Close actuator

(AC/DC 24 V)

Single-wire or 2-wire control

Application
The type LM24(-S) is intended for the operation of air control dampers in ventilation and air-conditioning systems.

Mode of operation
Open/Close control by single-wire or 2-wire system.

Product features

Simple direct mounting on the damper spindle by universal spindle clamp. An antirotation device is supplied to prevent unwanted rotation of the whole unit.

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

Adjustable angle of rotation with mechanical stops.

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

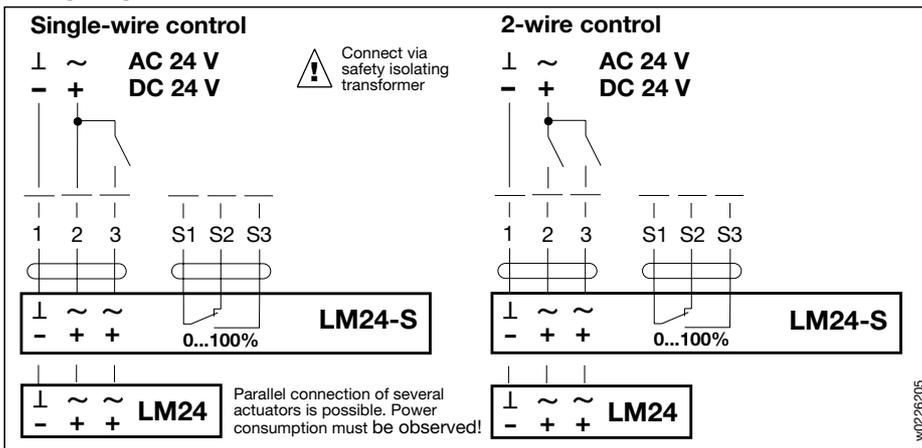**Flexible signalling** 0…100%, with adjustable auxiliary switch (LM24-S only).

Mounting instructions, page 6

Adjusting auxiliary switch LM24-S, page 7.

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

Wiring diagram

w0226205

Dimensions

d0001805

Technical data	LM24, LM24-S
Nominal voltage	AC 24 V 50/60 Hz, DC 24 V
Nominal voltage range	AC/DC 19.2…28.8 V
For wire sizing	3 VA
Power consumption	2 W
Connecting cable	– motor 1 m long, 3×0.75 mm² – auxiliary switch (LM24-S) 1 m long, 3×0.75 mm²
Auxiliary switch (LM24-S)	1×SPDT 5(2.5) A, AC 250 V ▢ (adjustable 0…100% ∢)
Direction of rotation	selected with L/R switch
Manual operation	Pushbutton, self-resetting
Torque	min. 4 Nm (at rated voltage)
Angle of rotation	max. 95° (adjustable by mechanical stops)
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 Low Voltage Directive	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC CE according to 73/23/EEC
Maintenance	maintenance-free
Weight	650 g