

- For operation of air control dampers in HVAC system
- Torque: 5Nm
- Nominal voltage: AC/DC 24V
- Control: Open/Close or 3-point

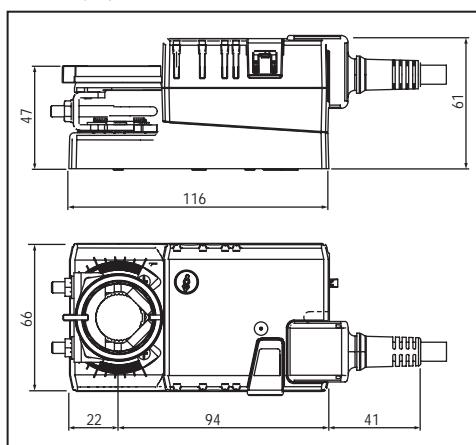


Technical data

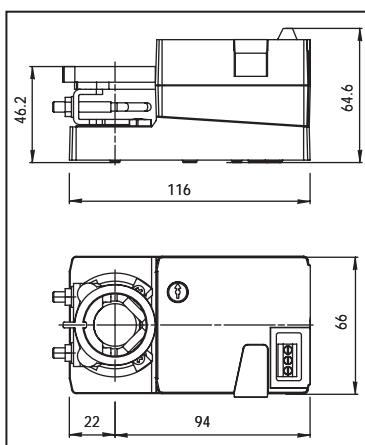
Electrical data	Nominal voltage	AC 24V 50/60Hz, DC 24V
	Nominal voltage range	AC/DC 19.2...28.8V
	Power consumption	1W running / 0.2W @ holding
	Wire / transformer sizing	1.5VA
	Auxiliary switch LMU24-S	1 SPDT, 1mA...3(0.5)A, AC 250V □, adjustable
	Connection: Motor LMU24(-S/-F)	Cable 1m, 3x0.75mm ²
	Auxiliary switch LMU24-S	Cable 1m, 3x0.75mm ²
	Terminals LMU24-T	Max. 3x1.5mm ²
Functional data	Torque	5Nm
	Direction of rotation	Selectable by switch
	Manual override	Gearing latch disengaged by pushbutton, self-resetting
	Angle of rotation	Max. 95°, adjustable by mechanical stops
	Running time	150s for 95°
	Sound power level	Max. 35dB(A)
Working conditions	Position indication	Mechanical, remote visible
	Protection class	III (safety low voltage)
	Degree of protection: LMU24(-S/-F)	IP54 in any directions
	LMU24-T	IP20
	EMC	CE according to 89/336/EEC
Dimensions / weight	Mode of operation	Type 1 to EN 60730-1
	Ambient temperature	-30...+50°C
	Non-operation temperature	-40...+80°C
	Humidity test	95%RH, non condensing (EN 60730-1)
	Maintenance	Maintenance-free
	Dimensions (L x W x H)	See 'Dimensions'
	Shaft length	Min. 37mm
	Shaft : LMU24(-T/S)	○ ⊕ 6...20mm
	LMU24-F	8x8mm
	Weight	Approximately 500g

Dimensions [mm]

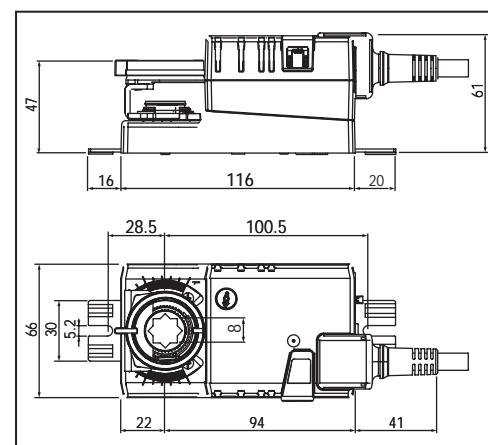
LMU24(-S)



LMU24-T



LMU24-F



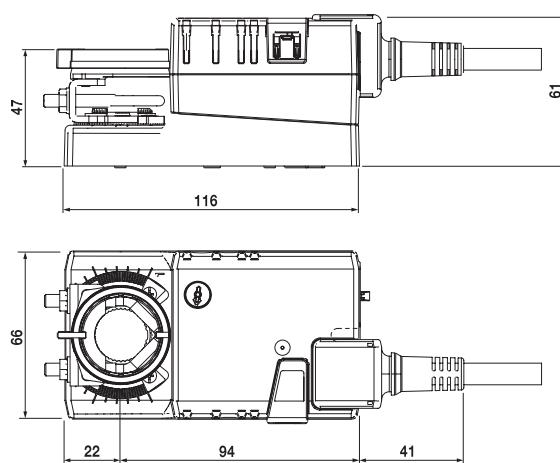
- For operation of air control dampers in HVAC system
- Torque: 5Nm
- Nominal voltage: AC/DC 24V
- Control signal: DC 2(0)...10V
- Position feedback: DC 2...10V



Technical data

Electrical data	Nominal voltage	AC 24V 50/60Hz, DC 24V
	Nominal voltage range	AC/DC 19.2...28.8V
	Power consumption	1W @ running / 0.4W @ holding
	Wire/transformer sizing	2VA
	Connection	Cable 1m, 4x0.75mm ²
Functional data	Torque	5 Nm
	Control signal	DC 2(0)...10V (input impedance 100k Ω)
	Feedback signal	DC 2...10V
	Position accuracy	±5%
	Direction of rotation	Selectable by switch
	Manual override	Gearing latch disengaged by pushbutton, self-resetting
	Angle of rotation	Max. 95°, adjustable by mechanical stops
	Running time	150s for 95°
	Sound power level	Max. 35dB(A)
	Position indication	Mechanical, remote visible
Working conditions	Protection class	III (safety low voltage)
	Degree of protection	IP54 in any directions
	EMC	CE according to 89/336/EEC
	Mode of operation	Type 1 to EN 60730-1
	Ambient temperature	-30...+50°C
	Non-operation temperature	-40...+80°C
	Humidity test	95%RH, non condensing (EN 60730-1)
	Maintenance	Maintenance-free
Dimensions / weight	Dimensions (L x W x H)	157x66x60mm
	Shaft length	Min. 37mm
	Shaft	Ø 1.25 mm
	Weight	500g

Dimensions [mm]



- For operation of air control dampers in HVAC system
- Torque: 5Nm
- Nominal voltage: AC 100...240V
- Control: Open/Close or 3-point

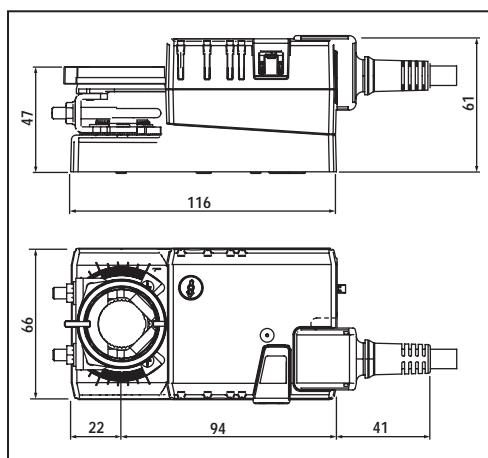


Technical data

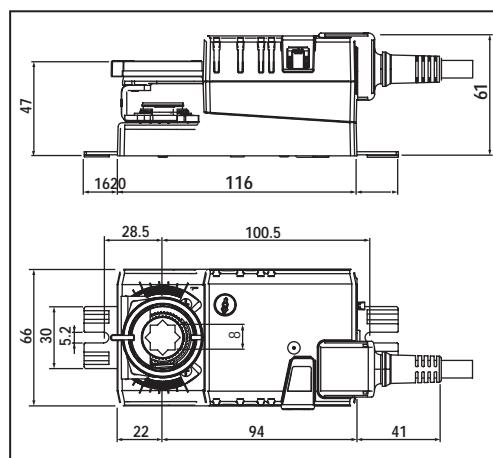
Electrical data	Nominal voltage	AC 100...240V 50/60Hz
	Nominal voltage range	AC 85...265V
	Power consumption	1.5W @ running / 0.5W @ holding
	Wire/transformer sizing	3.5VA
	Auxiliary switch LMU230-S	1 SPDT, 1mA...3(0.5)A, AC 250V <input type="checkbox"/> , adjustable
	Connection: Motor	Cable 1m, 3x0.75mm ²
	Auxiliary switch LMU230-S	Cable 1m, 3x0.75mm ²
	Torque	5 Nm
	Direction of rotation	Selectable by switch
	Manual override	Gearing latch disengaged by pushbutton, self-resetting
Functional data	Angle of rotation	Max. 95°, adjustable by mechanical stops
	Running time	150s for 95°
	Sound power level	Max. 35dB(A)
	Position indication	Mechanical, remote visible
	Protection class	II (totally insulated) <input type="checkbox"/>
	Degree of protection	IP54 in any directions
	EMC	CE according to 89/336/EEC
	Low voltage directive	CE according to 73/23/EEC
	Mode of operation	Type 1 to EN 60730-1
	Ambient temperature	-30...+50°C
Working conditions	Non-operation temperature	-40...+80°C
	Humidity test	95%RH, non condensing (EN 60730-1)
	Maintenance	Maintenance-free
	Dimensions (L x W x H)	See 'Dimensions'
	Shaft length: LMU230(-S)	Min. 37mm
	LMU230-F	Min. 20mm
	Shaft : LMU230(-S)	6 ... 20mm
	LMU230-F	8x8mm
	Weight	Approximately 550g
Dimensions / weight		

Dimensions [mm]

LMU230(-S)



LMU230-F



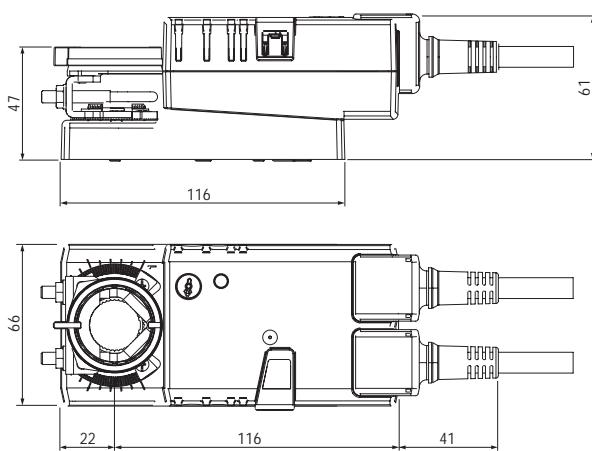
- For operation of air control dampers in HVAC system
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- Nominal voltage: AC 100...240V
- Control signal: DC 2(0)...10V
- Position feedback: DC 2...10V



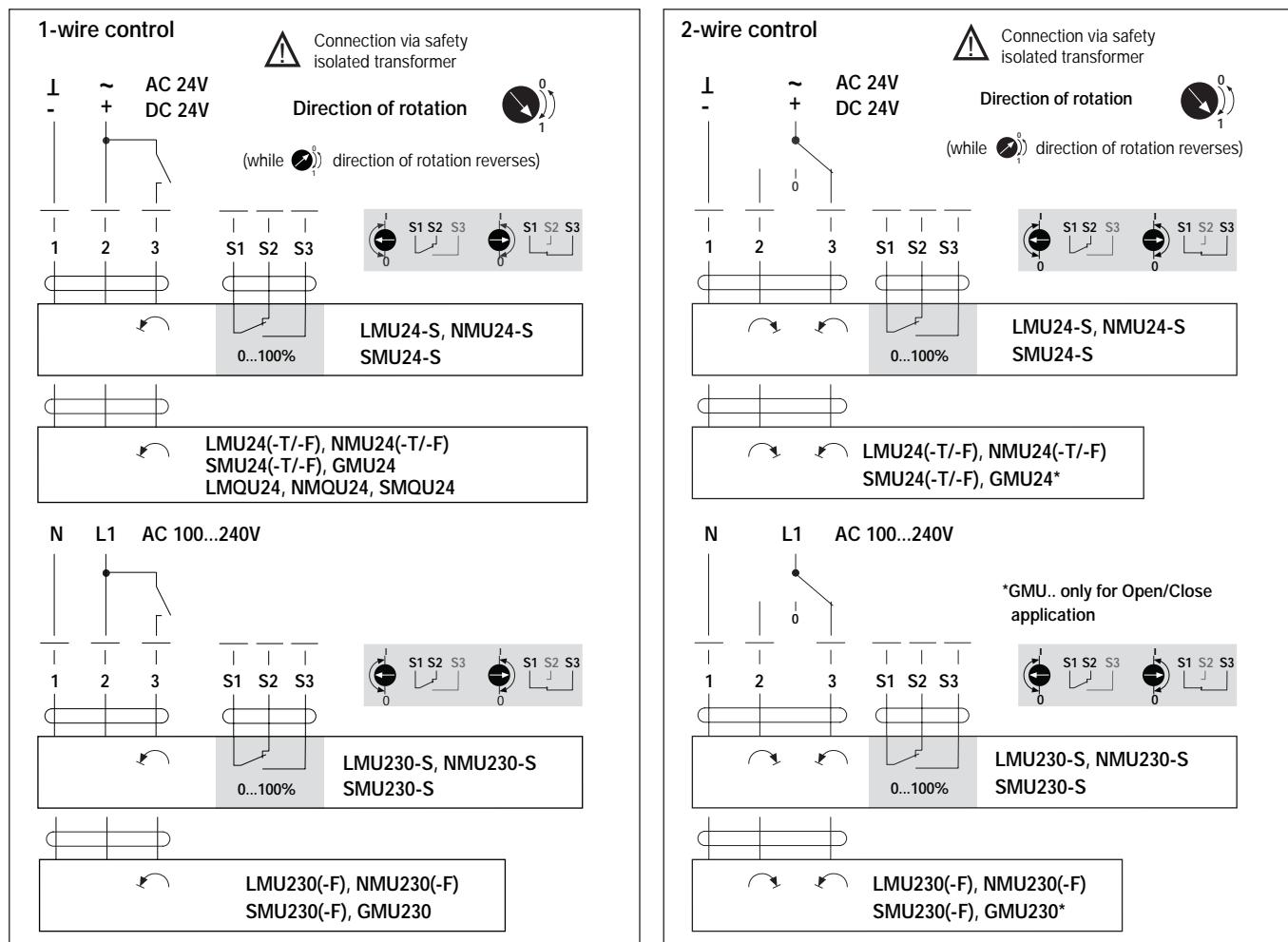
Technical data

Electrical data	Nominal voltage	AC 100...240V 50/60Hz
	Nominal voltage range	AC 85...265V
	Power consumption	2.0W @ running / 1W @ holding
	Wire/transformer sizing	4VA
	Connection cable: Power supply Signals	Cable 1m, 2x0.75mm ² Cable 1m, 4x0.75mm ²
Functional data	Torque	5Nm
	Control signal	DC 2(0)...10V (input impedance 100kΩ)
	Feedback signal	DC 2...10V
	Position accuracy	±5%
	Direction of rotation	Selectable by switch
	Manual override	Gearing latch disengaged by pushbutton, self-resetting
	Angle of rotation	Max. 95°, adjustable by mechanical stops
	Running time	150s for 95°
	Sound power level	Max. 35dB(A)
	Position indication	Mechanical, remote visible
Working conditions	Protection class	II (totally insulated) □
	Degree of protection	IP54 in any directions
	EMC	CE according to 89/336/EEC
	Low voltage directive	CE according to 73/23/EEC
	Mode of operation	Type 1 to EN 60730-1
Dimensions / weight	Ambient temperature	-30...+50°C
	Non-operation temperature	-40...+80°C
	Humidity test	95%RH, non condensing (EN 60730-1)
	Maintenance	Maintenance-free
	Dimensions (L x W x H)	179x66x60mm
	Shaft length	Min. 37mm
	Shaft	Ø 12.7 ± 0.05mm
	Weight	Approximately 700g

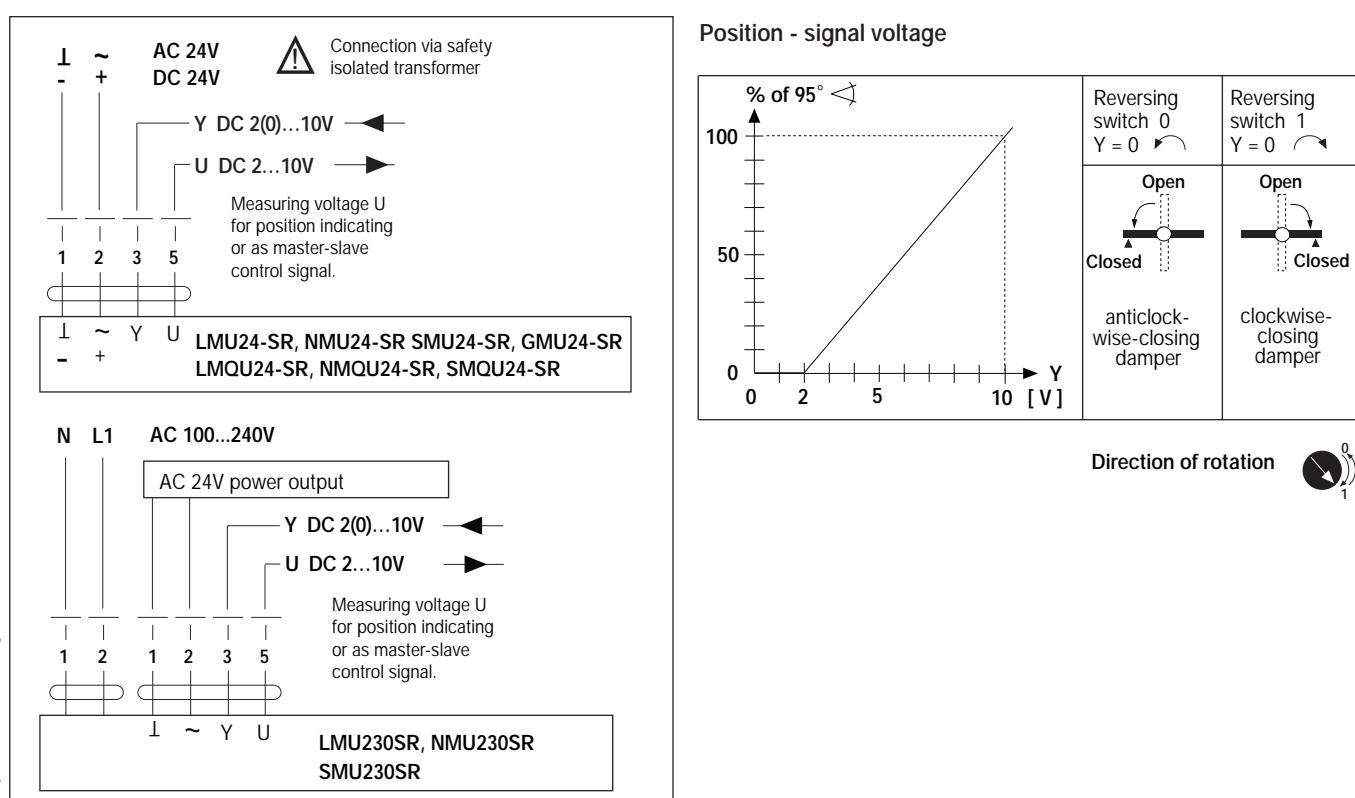
Dimensions [mm]



Wiring diagram: Open/Close actuators—Parallel connection possible, please note the performance data.



Wiring diagram: Modulating actuators—Parallel connection possible, please note the performance data.



		Actuators									
		CMU	LMU	NMU	SMU	GMU	TF	LF	NF	AF	AFR
S.A..		Auxiliary switch, add-on									
S1A..		1 SPDT 3A (0.5A), AC 250V									
S2A..		2 SPDT 3A (0.5A), AC 250V									
P.A..		Feedback potentiometer, add-on									
P140A..		140Ω									
P500A..		500Ω									
P1000A..		1000Ω									
P2800A..		2800Ω									
P5000A..		5000Ω									
P10000A..		10000Ω									
SGA24		Positioner for surface mounting 0...100% Reversible operating range DC 0...10V or DC 2...10V									
SGR24		Positioner for surface mounting 0...100% Reversible operating range DC 0...10V or DC 2...10V									
SGE24		Positioner for rack mounting 0...100% Reversible operating range DC 0...10V or DC 2...10V									
SGF24		Positioner for front-panel mounting 0...100% Reversible operating range DC 0...10V or DC 2...10V									
ZAD24		Digital position indicator for front-panel mounting 0...99% Front size 72x72mm Operating range DC 2...10V									

1) For...-SR

2) For...24-SR