

Product Description

The Belimo LF24 US spring return, 35 lb-in electronic damper actuator provides On/Off, fail-safe control of dampers in HVAC systems. Actuator sizing should be done in accordance with the damper manufacturer's specifications.

The actuator is mounted directly to a damper shaft from 3/8" up to 1/2" in diameter by means of its universal clamp. A crank arm and several mounting brackets are available for applications where the actuator cannot be direct coupled to the damper shaft.

BELIMO



Product Specifications

Torque:	35 in-lb (4 Nm)
Motor Running Time:	< 40 to 75 sec.
Spring Running Time:	< 25 sec. @ -4°F to 122°F (-20°C to 50°C) < 60 sec. @ -22°F (-30°C)
Angle of Rotation:	95° max. (adjustable)
Direction of Rotation:	Spring; Reversible with CW/CCW mounting Motor; Reversible with built-in switch
Position Indication:	Visual indicator, 0° to 95° (0° is full spring return position)
Manual Override:	5mm hex crank (3/16" Allen) supplied
Control:	On/Off
Power Supply:	24 Vac ± 20% 50/60 Hz 24 Vdc +20% / -10%
Power Consumption:	5 W (running) 2.5 W (holding)
Transformer Sizing:	7 VA (class 2 power source)
Electrical Connection:	3' (.9m) 18 AWG appliance cable 1/2" conduit connector
Overload Protection:	Electronic throughout 0° to 95° rotation
Ambient Temperature:	-22°F to 122°F (-30°C to 50°C)
Storage Temperature:	-40°F to 176°F (-40°C to 80°C)
Humidity:	5 to 95% RH (non-condensing)
Housing:	NEMA type 2, IP54, Enclosure Type2
Material:	Zinc coated steel
Agency Listings:	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
Noise Level:	≤50 dB(A) ≤62 dB(A) spring return
Servicing:	Maintenance free
Quality standard:	ISO 9001
Weight:	3.1 lbs (1.4 kg)

Product Features

- Bi-directional fail-safe spring return
- Unique self-centering shaft coupling
- Manual override
- 90 lb-in (10 Nm) torque
- 5° preload as shipped from factory
- Maintenance free
- UL and CSA listed

Specifications are subject to change without notice.

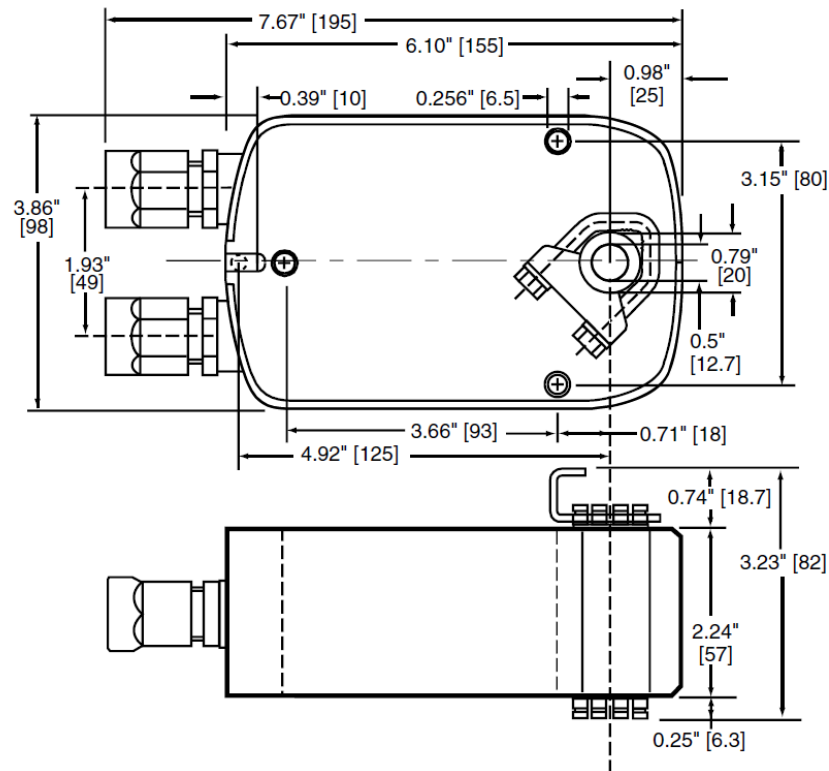
Product Dimensions (Inches [mm])

Standard:

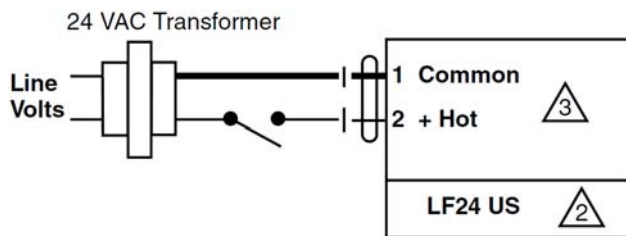
- 3/8" to 1/2"
- 3/8" to 7/16"

Optional

- 1/2" to 3/4"
w/K6-1
accessory



Product Wiring



INSTALLATION NOTES

- 1 Provide overload protection and disconnect as required.
- 2 **CAUTION Equipment Damage!**
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.
- 3 Actuators may also be powered by 24 VDC.

APPLICATION NOTES

- ◆ Meets cULus requirements without the need of an electrical ground connection.

WARNING Live Electrical Components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

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