

Electronic Damper Actuator Non-spring Return

Easily Replaces:

- Belimo NM Series



88 lb.-in. Torque
24 Vac, Floating Control
0 to 10 Vdc, Modulating Control



GLB Series Non-spring Return
Electronic Damper Actuator.

Description

The OpenAir GLB Series Direct-coupled 24 Vac Non-spring Electronic Actuator is designed for 0 to 10 Vdc or floating control of building HVAC dampers.

Features

- Compact design
- Easy-to-see position indicator
- 0 to 10 V or floating models
- Self-adapting capability for maximum flexibility in damper positioning
- UL, cUL, CE listed
- Quiet, low-power operation
- Rugged all metal housing, rated NEMA 2
- Assembled in the U.S.A.
- Manual override
- Plenum-rated cable
- Modulating actuators contain built-in feedback

Options

- Independently adjustable dual auxiliary switches
- Adjustable start/span
- Potentiometer on floating control

Applications

The OpenAir GLB Series Damper Actuators are used in constant or variable air volume installations for the control requiring up to 88 lb.-in. (10 Nm) torque.

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Damper Actuators

GLB Series Specifications

Operating Voltage	24 Vac
Frequency	50 to 60 Hz
Power Consumption	3.3 VA (modulating) 2.3 VA (floating)
Input Signal (8-2)	
Voltage-Input	0 to 10 Vdc
Input Resistance.....	100K Ohms
Position Output Signal (9-2)	
Voltage-Output	0 to 10 Vdc
Max. Output Current.....	1 mA
Equipment Rating for Operating Voltage, Input Signal, and Position Output Signal	
Class 2	
Control Signal Adjustment	
Offset (Start Point).....	Between 0 to 5 Vdc
Factory Setting	0 V
Span	Between 2 to 10 Vdc
Dual Auxiliary Switch	
Contact Rating	4 A resistive, 2 A General Purpose
Voltage	24 Vac
Switch Range	
Switch A.....	0 to 90° with 5° intervals
Recommended Range Usage	0 to 45°
Factory Setting	5°
Switch B.....	0 to 90° with 5° intervals
Recommended Range Usage	45 to 90°
Factory Setting	85°
Switching Hysteresis	3°
Position Feedback	
GLB132.1P	0 to 1000 Ohm <10 mA

Function	
Torque	88 lb.-in. (10 Nm)
at 50 Hz	150 sec.
at 60 Hz	125 sec.
Nominal Angle of Rotation.....	90°
Max. Angular Rotation	95°
Shaft Dimensions	3/8 to 5/8-in. (8 to 16 mm) Dia. ● 1/4 to 1/2-in. (6 to 13 mm) Sq. ■
Min. Shaft Length	3/4-in. (20 mm)
Housing Enclosure	NEMA 2
Material	Plenum Rated Rugged Plastic
Temperature	
Operation.....	-25 to +130°F (-32 to +55°C)
Storage and Transport.....	-40 to +158°F (-40 to +70°C)
Humidity	95% RH, non-condensing
Agency Approvals	UL873 cUL C22.2 No. 24-93 CE
Pre-cabled Connection	AWG 18
Cable Length	3 ft. (0.9 m)
Dimensions	5.4" H x 2.6" W x 2.3" D (137 mm H x 68 mm W x 60 mm D)
Shipping Weight	06 lb. (0.45 kg)

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◀ Refer to page B-21 for Dimensions.

GLB Series Product Ordering

Input Signal	Cabling	Part No.				
		Standard	Span/Offset Adjustable	Dual Aux. Switches & Span/Offset Adjustable	Dual Aux. Switches Only	Potentiometer
Floating, 24 Vac	3' Plenum Cable	GLB131.1P	—	—	GLB136.1P	GLB132.1P
	6' Plenum Cable	GLB131.1Q	—	—	—	—
0 to 10 Vdc	3' Plenum Cable	GLB161.1P	GLB163.1P	GLB164.1P	GLB166.1P	—
	6' Plenum Cable	GLB161.1Q	—	—	—	—

Accessories & Service Kits B-49