



Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

P: 440-232-9700 • F: 440-232-8266

www.youngregulator.com

Submit EBD5050 – 1-10

Model EBD5050

Rectangular Electronic Balancing Damper - In A High Efficiency Take Off With Position Indication 12V DC

Application and Design

The Young Regulator EBD5050 is an Electronic Balancing Damper in a high efficiency take off. Dampers above a hard ceiling or in any inaccessible location can be controlled with the EBDP – Electronic Balancing Damper Positioner, which opens and closes the damper and provides a visual indication of the damper position with an LCD meter

The Positioner can be used to control any number of dampers at a worksite through a variety of receptacles that are offered. The Positioner is self contained and small enough to be carried in a pocket. A high capacity battery is featured for long life and is easily replaced in the field when necessary.

The EBD5050 is ideal in a number of applications:

- Labs, where more precise balancing or control may be required
- Schools, prisons, and mental health facilities, where access to controls is restricted
- Atriums, where dampers are inaccessible and long cable runs are required
- Any situation where seasonal changes require re-balancing of the HVAC system

An EBD5050, Electronic Balancing Damper that includes the 12V DC motor, an EBDC Cable up to 1,000' in length, and a termination are required for a complete assembly. Field connection between 12V DC motor and termination is fast and simple with snap on connectors installed by the factory. One EBDP Positioner is required per job.



STANDARD CONSTRUCTION	
Fitting	24 ga. Galvanized Steel
Blade	20 ga. Galvanized "V" Blade
Bushings	Nylon
Shaft	1/2" Diameter Steel
Flange	1" Wide with Corner Clips
Gasket	Double Sided Adhesive

SIZE INFORMATION		
Order Size	Rectangular Opening	Height
6"	6" x 9 3/4"	14"
8"	8" x 11"	14"
10"	6 3/4" x 14"	12 1/2"
12"	7 1/8" x 17"	12 1/2"

ACTUATOR	
Volts	12V DC
Watts	< 0.5
Amp	< 20 mA.
Timing	12 sec. 90° Rotation
Torque	16 lbs.-in. (max)

ACCESSORIES	
REQUIRED	TERMINATION OPTIONS
EBDP - Positioner One per Order	EBD 301 Concealed Ceiling Termination
EBDC - Plenum Rated Cable One Per Assembly	EBD 302 Concealed Wall Termination
	EBD-Wall (1, 2, 4, 6, 12 Ports)

OTHER	
Low Leak Seals	Spare Batteries

OPTIONS
Optional Model is available without position indication



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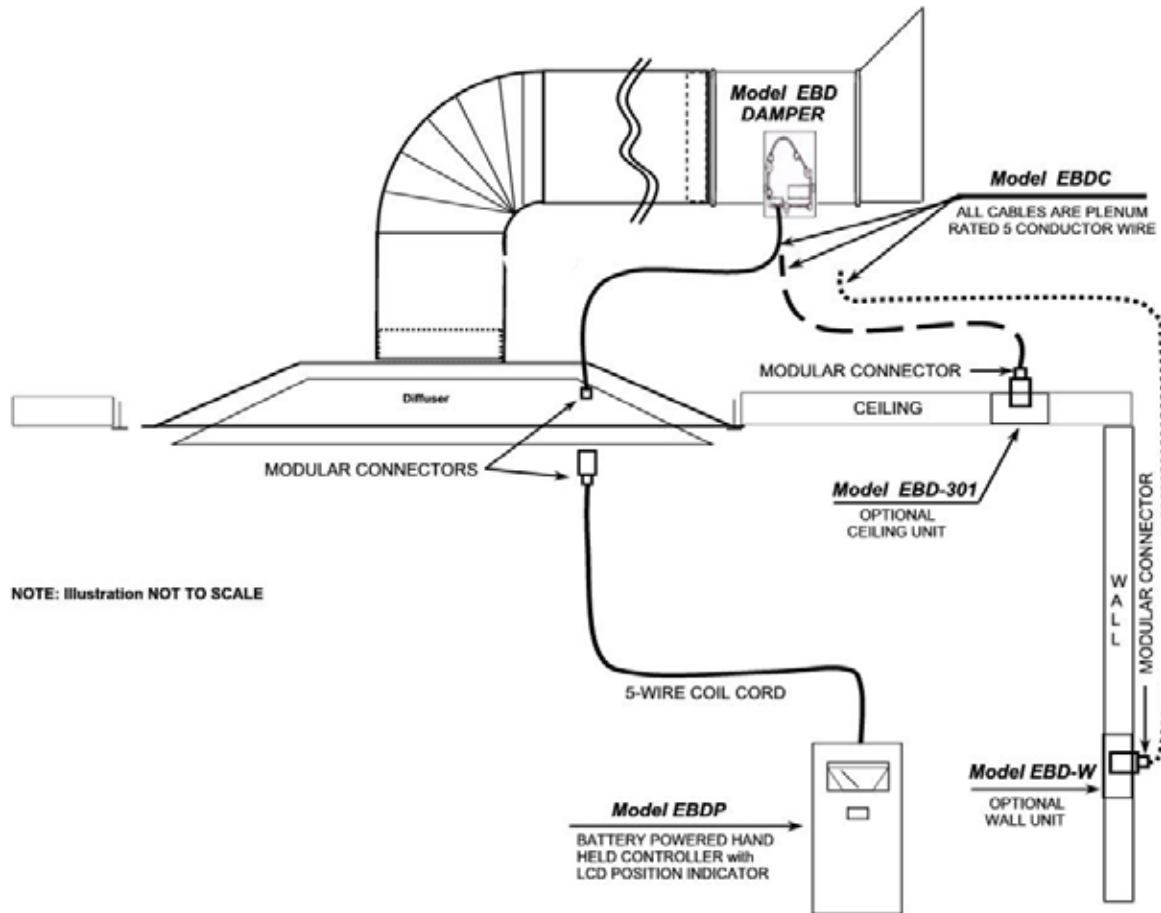
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Operation:

The Positioner is turned on via a side-mounted switch that enables the meter to indicate damper position. A non-rechargeable 9v lithium battery powers the Positioner.

Once the unit is connected to a receptacle, the meter indicates blade position modulating over a range of 0 – 100% open via a voltage signal that is proportional to the blade angle.

The position of the damper blade is controlled by the use of a front mounted rocker switch, opening the damper by depressing the right side of the switch and closing the damper by depressing the left side of the switch. The meter indicates the exact position of the damper blade. The switch will return to the neutral center position when released.

When finished adjusting dampers at the worksite, be sure to turn the Positioner off with the slide switch to extend battery life. Positioner should be returned to the owner.

Replace the battery in the positioner with the same type of battery to maintain the calibration of the position meter. Replacement batteries are available from Young Regulator Co and many retail outlets. Dispose of used batteries in accordance with local regulatory and environmental codes.

QUANTITY	DIAMETER	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER