

ZEBD25 ELECTRONIC BYPASS DAMPER

Ruskin Model ZEBD25 electronic bypass damper is constructed of 18 gage (1.2) galvanized steel. The full length aluminum axle rides on nylon bushings for smooth and quiet operation. The unit has a standard foam blade seal to provide tight shutoff. The factory mounted actuator and static pressure switch are factory tested to ensure

dependable operation. The ZEBD25 is perfect for use in zone bypass applications and other HVAC applications that require maintaining system static pressure from 0.2" to 2.0" water column (50 to 500 Pa).

STANDARD CONSTRUCTION

FRAME

18 gage (1.2) spiral steel

BLADE

18 gage (1.2) steel

AXLES

1/2" (13) aluminum shaft

BEARINGS

Nylon sleeve type

BLADE SEAL

Foam rubber

STATIC PRESSURE CONTROL

Model ZSPC200 (reference ZSPC200 Specification Sheet)

PRESSURE RANGE

0.2" to 2.0" water column (50 to 500 Pa)

0.5 PSI (3450 Pa) max pressure

1 Amp switching current at 24 VAC

ACTUATOR

24 VAC, 50/60Hz floating point

90 second timing @ 60Hz

POWER CONSUMPTION

3.3 VA modulating

AGENCY LISTINGS

UL873 and cUL (C22.2 No. 24-93) listed

ACTUATOR TORQUE

44-lb-in (5 Nm)

AVAILABLE SIZES

12", 14", 16", 18", 20" (305, 356, 406, 457, 508)

FINISH

Galvanized

OPERATING TEMPERATURE

32° to 120°F (0° to 49°C)

PACKAGE CONTENTS

- Low Leak Damper
- Factory mounted actuator
- Factory mounted static pressure switch
- Aluminum pressure probe with tubing
- Installation Instructions

NOTE: Dimensions shown in parentheses () indicate millimeters.



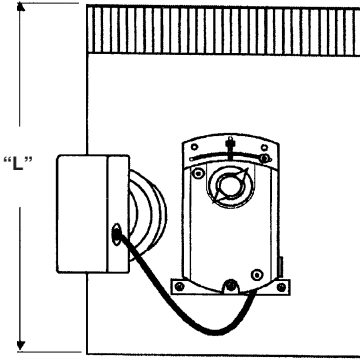
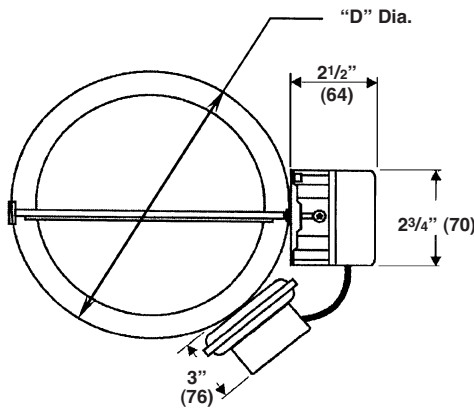
FEATURES

- Factory mounted actuator and static pressure control
- 1/4" (6) I.D. flex hose connection
- Solid state control design
- Built-in LED for damper direction
- Minimum position adjustment

SEQUENCE OF OPERATION

As individual zone dampers open and close, the system static pressure rises and falls respectively. In order to maintain proper airflow and static pressure through the HVAC system, a bypass damper with a reversible type motorized actuator and static pressure control should be used. The static pressure control is equipped with a solid-state switching and timing circuit to enhance operation and improve reliability. Refer to the ZSPC200 Static Pressure controller Installation Instructions for additional details.

DIMENSIONAL DETAILS



DIMENSIONS	
"D" DIAMETER	"L" DIMENSION
12" (305)	13" (330)
14" (356)	14" (356)
16" (406)	14" (356)
18" (457)	14" (356)
20" (508)	14" (356)

SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans, or as in accordance with schedules, electronic bypass dampers built to the following minimum requirements. Frame shall be spiral steel shell 18 gage (1.2) minimum. Blade shall be minimum 18 gage (1.2) galvanized steel, mechanically fastened to a 1/2" (13) diameter continuous aluminum shaft. Shaft shall ride on nylon bushings, at both ends, to provide smooth and quiet operation. Foam blade seal shall be glued and caulked to ensure damper leakage integrity. Damper shall be equipped with a factory furnished, mounted and cycle tested 24 VAC

electric floating point actuator and static pressure control that are wired together to ensure product compatibility and reduce field labor. Actuator shall be UL873 and cUL listed. Power consumption shall not exceed 3.3 VA at any time during operation. Static pressure switch shall control between 0.2" to 2.0" water column (50 to 500 Pa). Unit shall be rated to 0.5 PSI max pressure. Complete assembly shall be, in all respects, equivalent to Ruskin model ZEED25 Electronic Bypass Damper.

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