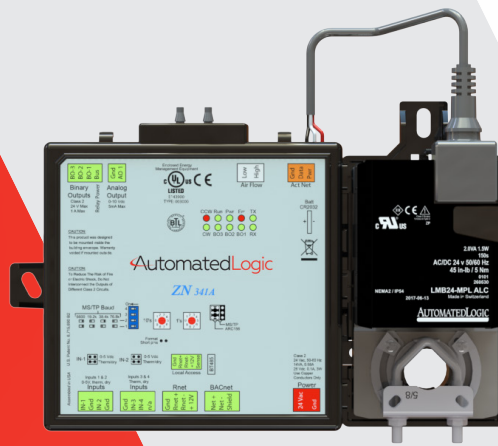


# ZASF-A SECONDARY VAV DAMPER

TERMINAL BOX ACCESSORY CONTROLLER



## VAV DAMPER FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

The ZASF-A is intended specifically for VAV terminal box applications and is designed to be used with the ZN341A and ZN141A. It mounts directly on the secondary VAV damper shaft and provides an integral actuator and a second integrated flow sensor for damper positioning and air-flow sensing in dual duct or tracking systems.

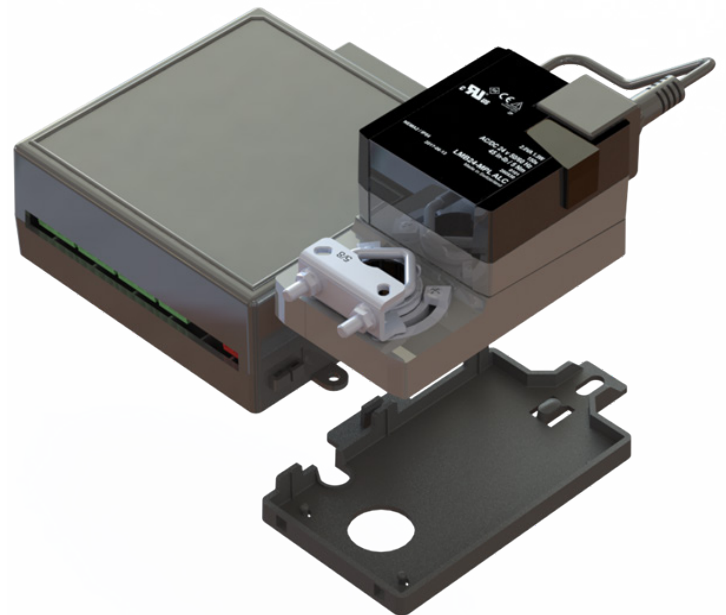
### KEY FEATURES AND BENEFITS

#### Application Features

- Quick and easy test and balancing process

#### Hardware Features

- Separable actuator with a 45 inch-pound (5 Nm) torque rating that can be mounted up to a maximum distance of 300 feet from the controller
- Precision differential pressure sensor and advanced VAV algorithm increase occupant comfort at both minimum and maximum design air flows, while also extending actuator life



WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

# SPECIFICATIONS

Part #	ZASF-A Secondary VAV Damper
Power	Receives power from the ZN341A or the ZN141A. For AC, increase the controller's power supply by 3 VA (or for DC, increase the power by 2.5 W) when connecting a ZASF-A.
Actuator	Belimo brushless DC motor, torque 45 inch-pounds (5 Nm), runtime 154 seconds
Act Net Port	To connect the actuator to the ZASF-A controller and the ZN341A or ZN141A
Protection	Built-in surge and transient protection for power and communications in compliance with EN61000-6-1
Status Indicators	LED's indicate status of communications, running, power, and motor direction
Environmental Range	32°F to 130°F (0 to 54.4°C), 10–90% relative humidity, non-condensing
Integral Airflow Sensor	Precision differential pressure sensor 0-2 in. H2O, sensitive down to +/- 0.001 in. H2O. Barbed tapered airflow connections accept 3/16 in. (4.75 mm) I.D. tubing. Allows for readings across 0-2 in. H2O range, accurate to +/- 5% of full flow at 2 in. H2O
Compliance	<b>United States:</b> FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment; <b>AS/NZS:</b> RCM Mark 61000-6-3; <b>Canada:</b> UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; CE Mark Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; <b>UKCA</b> Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012.

● **Figure 1: Physical Dimensions**

### Controller Dimensions

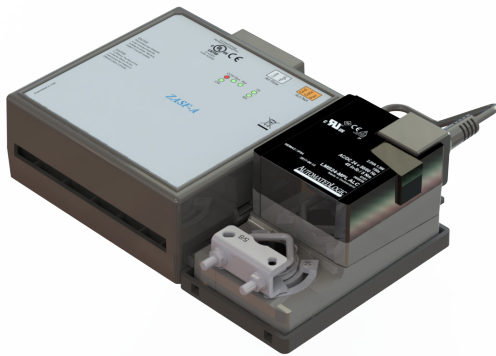
	in.	cm
<b>Width:</b>	<b>6.4</b>	<b>16.3</b>
<b>Height:</b>	<b>5.7</b>	<b>14.5</b>
<b>Depth:</b>	<b>2.1</b>	<b>5.3</b>

### Actuator Dimensions

	in.	cm
<b>Width:</b>	<b>3.0</b>	<b>7.6</b>
<b>Height:</b>	<b>5.9</b>	<b>15.0</b>
<b>Depth:</b>	<b>2.5</b>	<b>6.4</b>

### Controller & Actuator Dimensions

	in.	cm
<b>Width:</b>	<b>8.9</b>	<b>22.7</b>
<b>Height:</b>	<b>5.9</b>	<b>15.0</b>



### Mounting Dimensions

#### Controller Dimensions

**5.3 in. (13.4 cm) from left side controller mounting hole centerline to right side controller mounting hole centerline**

#### Actuator Dimensions

**4.4 in. (11.2 cm) from shaft centerline to mounting hole centerline**

#### Controller & Actuator

**7.1 in. (18.0 cm) from left side controller mounting hole centerline to actuator mounting hole centerline**

**Weight: 1.6 lbs 0.82 kg**

Assembled in the United States