

## ZONE CONTROL ACTUATOR AND THERMOSTAT FOR USE ON RUSKIN MODELS ZCDVAV and ZCDRVAV

### APPLICATION

Ruskin Zone Control models ZCDVAV and ZCDRVAV come with a factory installed modulating actuator, duct change over sensor, and compatible wall mount thermostat. Refer to the ZCDVAV and ZCDRVAV Product Data sheets for specific application of these dampers.

### ML7161A2008 STANDARD FEATURES

**TORQUE**

35 lb-in.

**RUNNING TIME**

90 sec.

**CONTROL INPUT**

2 to 10 Vdc (4-20 mA w/400 ohm resistor)

**ANGLE OF ROTATION**

90°

**POSITION INDICATOR**

Visual indicator

**MANUAL OVERRIDE**

Declutch mechanism

**DIMENSIONS**

5.55"h (141) x 3.39"w (86) x 3.0" (76) deep

**HOUSING**

Steel plate and Plenum rated plastic

**POWER SUPPLY**24 Vac  $\pm$ 20%**ELECTRICAL CONNECTIONS**

Screw terminals

**TEMPERATURE RANGE**

Ambient 20°F to 125°C (-18°C to +50°C)

### TB7980A1006 STANDARD FEATURES

**DESCRIPTION**

Modulating (0-10Vdc) control

**OUTPUT SIGNAL**

2-10 Vdc or 2-10 VAC

**SETPOINT TEMPERATURE RANGE (F)**

50°F to 95°F

**SETPOINT TEMPERATURE RANGE (C)**

10°C to 35°C

**MOUNTING**

Wall mount

**DIMENSIONS**2<sup>5</sup>/<sub>8</sub>"w (69) x 4<sup>9</sup>/<sub>16</sub>"h (118) x 1" (27) deep**FREQUENCY**

60 Hz

**POWER SUPPLY**

24 Vac

**OUTPUT SIGNAL BURDEN**

0-10V, 10k min

**NOTE:**

Dimensions shown in parentheses ( ) indicate millimeters.



**MODEL: ML7161A**  
**USED ON MODELS ZCDVAV AND ZCDRVAV**

### ACTUATOR FEATURES

- Superior A/C synchronous submotor for consistent timing and actuator longevity
- Eliminates need for limit switches or mechanical stops by providing magnetic coupling
- Manual declutch lever and bag assembly with two minimum position setscrews
- Mounts directly on 3/8" (10) or 1/2" (13) square or round damper shaft
- Selectable 45°, 60° and 90° stroke in either clockwise or counter-clockwise direction

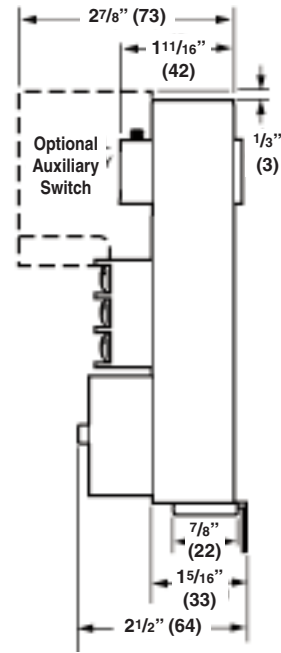
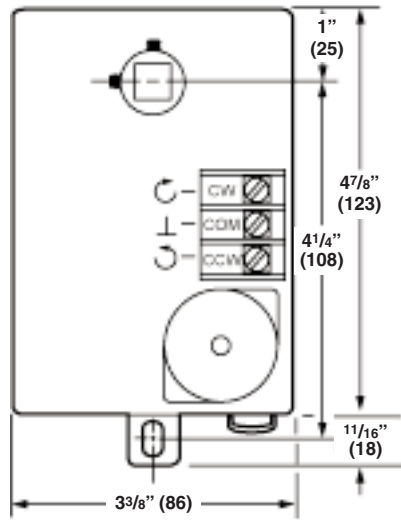


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### THERMOSTAT FEATURES

- Provides modulating (2 to 10 vdc analog) control
- Provides 2 additional outputs
- Provides max. and min. setpoints for heating and cooling
- Provides a night setback (NSB) terminal for energy savings

# DIMENSIONAL DETAILS



# WIRING DIAGRAM

