

Descriptions and Applications

The CEP-4000 series is a pressure-independent combination controller-actuator designed primarily for use on variable air volume terminal units. Cooling and heating air flow is sensed by a temperature-compensated hot-wire anemometer. Velocity sensing is unaffected by changes in the duct air temperature.

The CEP-4000 series offers full-range flow control of VAV terminal units when used with the CTE-1000/1100/5000 series room thermostats. Air-velocity flow control limits are set at the room thermostat or remotely with the REE-1012 remote-limits accessory module. The actuator section provides a magnetic clutch that allows the actuator to be stalled at either end of stroke, eliminating the requirement for mechanical stops or end switches. The controller-actuator is available with (100°, 60°, and 45°) built-in stops or (360°) no stops.

Features

- ◆ Hot-wire temperature-compensated anemometer sensor (SSE-1001/1002/2001/2002 standard).
- ◆ Available with 100°, 60°, and 45° built in stops.

Accessories

The following accessories are available:

Mounting Adapter

HFO-0011 For 3/8" shaft

Thermostats

CTE-1000 Series

CTE-1100 Series

CTE-5000 Series

Thermostat/Controllers (w/ remote temp. sensors)

CEE-1000 Series

CEE-1100 Series

Standard Air Flow Sensors

SSE-1001/1002 4"/8" insertion

SSE-2001/2002 4"/8" insertion, with thermistor

Conformal Coated Air Flow Sensors

SSE-1011/1012 4"/8" insertion

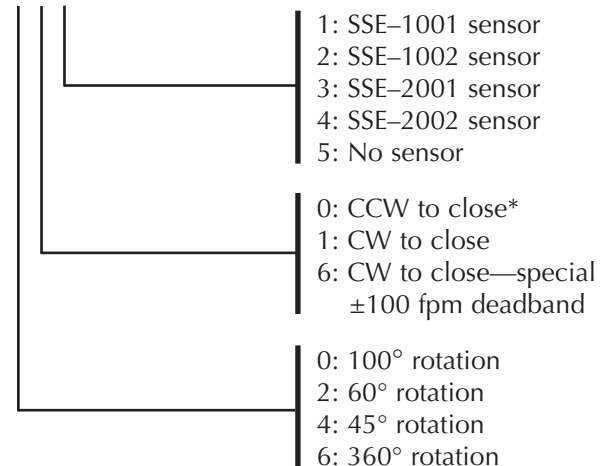
SSE-2011/2012 4"/8" insertion, with thermistor



Models

Use the following chart to make your selection:

CEP- 4X Y Z



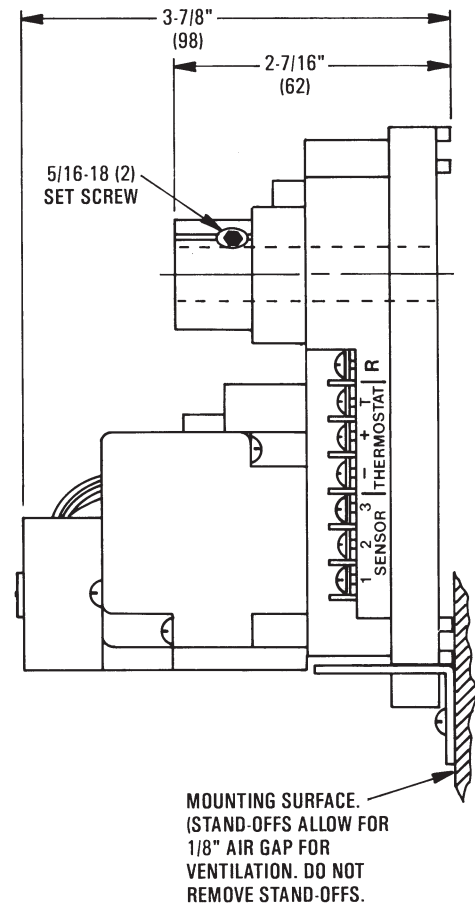
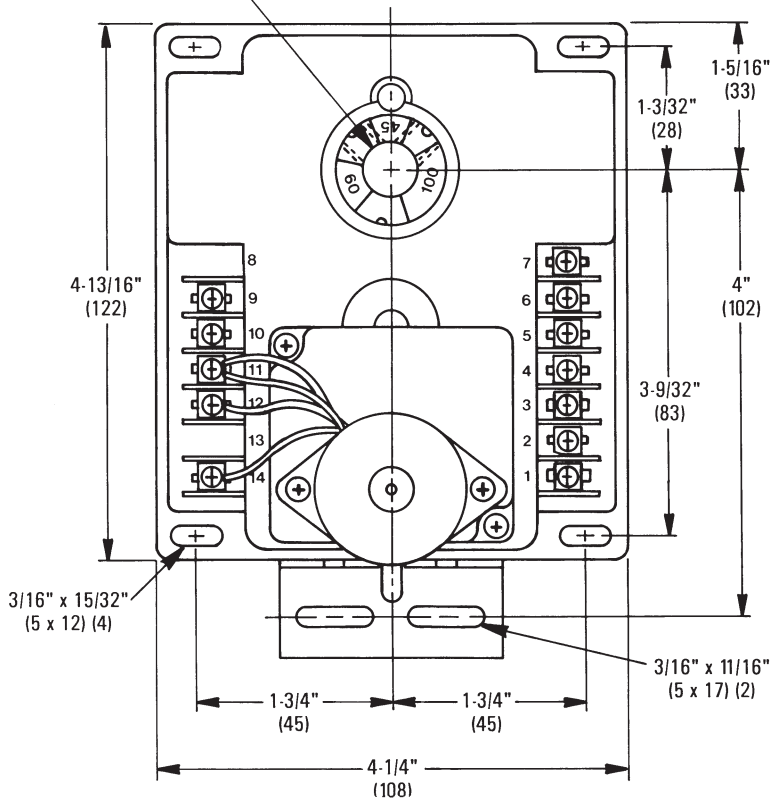
***NOTE:** The default rotation direction can easily be reversed by swapping the red and blue motor wires.

When replacing an older model, the CEP-4995 (100° rotation, CW to close, no sensor) is a "universal replacement" for most applications and will replace **MOST** CEP-1000/3000/4000 series controllers. If replacing a CEP-1000 or CEP-3000 series controller, the REE-1000 series relay controller, the REE-1000 series relay may also need to be replaced with the equivalent REE-4000 series module. See the CEP-4000 Applications Guide for more information.

Details

.51 DIA. (13) FOR 1/2" SHAFT
(3/8" SHAFT OPTIONAL)

All dimensions in inches (mm).



Specifications

Operating Voltage	24 VAC, -15%/+20%, 50/60 Hz
Input Power	9 VA
Output Supply	9.1 VDC (22 mA)
Output Torque	45 ±10 in-lbs. (5 ±1 N•m)
Velocity Range	0–3000 fpm (15.24 m/s)
Velocity Deadband	±50 fpm
Velocity Output	1–5 VDC (0–3000 fpm)
Reset Voltage	3–6 VDC (0–3000 fpm)
Angular Rotation	45°, 60°, 100°, 360°
Stroke Time	18° per minute
Mounting	Direct to 1/2" (13 mm) diameter shaft or with an HFO-0011 adaptor to 3/8" (10 mm) diameter shaft
Material	Glass-filled nylon
Weight	1.75 lb. (0.79 kg)
Connections	Plated screw terminals
Temperature Limits	
Operating	40° to 120° F (4° to 49° C)
Shipping	-40° to 140° F (-40° to 60° C)

More Information

For installation instructions, see the CEP-4000 Installation Guide.

For principles of operation, troubleshooting, additional calibration procedures, and sample applications, see the CEP-4000 Applications Guide.

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