

Description

The analog electronic KMC CSP-5001/5002s are pressure-independent combination controller-actuators, designed primarily for use on variable-air-volume terminal units. Airflow is sensed by using a single or multi-point differential (velocity) pressure measuring station or pitot tube (such as an SSS-1000 series airflow sensor). Designed with an onboard flow-through sensor using twin platinum resistance temperature detectors, these models are capable of controlling a velocity setpoint from 0 to 3,300 fpm with an accuracy of 3%.

The CSP-5001 (CCW to close) and CSP-5002 (CW to close) offer full-range flow control of VAV terminal units when used with the CTE-5202 and CTE-5100 series room thermostats. Air velocity flow control limits may be set at the thermostat or internal to the CSP-5001/5002. The actuator section provides adjustable stops, magnetic clutch, and a gear disengagement button. Internal status LEDs indicate green for opening and red for closing.

Available control options include proportional or two-position (hot water or electric) reheat, change-over, dual minimums, fan induction, dual duct, and automation interface.

Features

- ◆ Onboard flow-through sensors with twin platinum resistance temperature detectors
- ◆ Setpoint accuracy of 3% from 0 to 3,300 fpm
- ◆ Adjustable stops
- ◆ Magnetic clutch
- ◆ Gear disengagement button
- ◆ Internal LED rotation status indicators

NOTE: For detailed applications, cross-references, troubleshooting, and other information, see the [CSP-5001/5002 Applications Guide](#) and the [CTE-5202 Applications Guide](#). See also the [CSP-4702](#).



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Models

CSP-5001	CCW to close
CSP-5002	CW to close

NOTE: Factory-set rotation direction of either model can be reversed by changing a jumper position.

Accessories

Air Flow Sensors

SSS-10x2	1 sensing point, 3-5/32" length
SSS-10x3	2 sensing points, 5-13/32" length
SSS-10x4	3 sensing points, 7-21/32" length
SSS-10x5	4 sensing points, 9-29/32" length

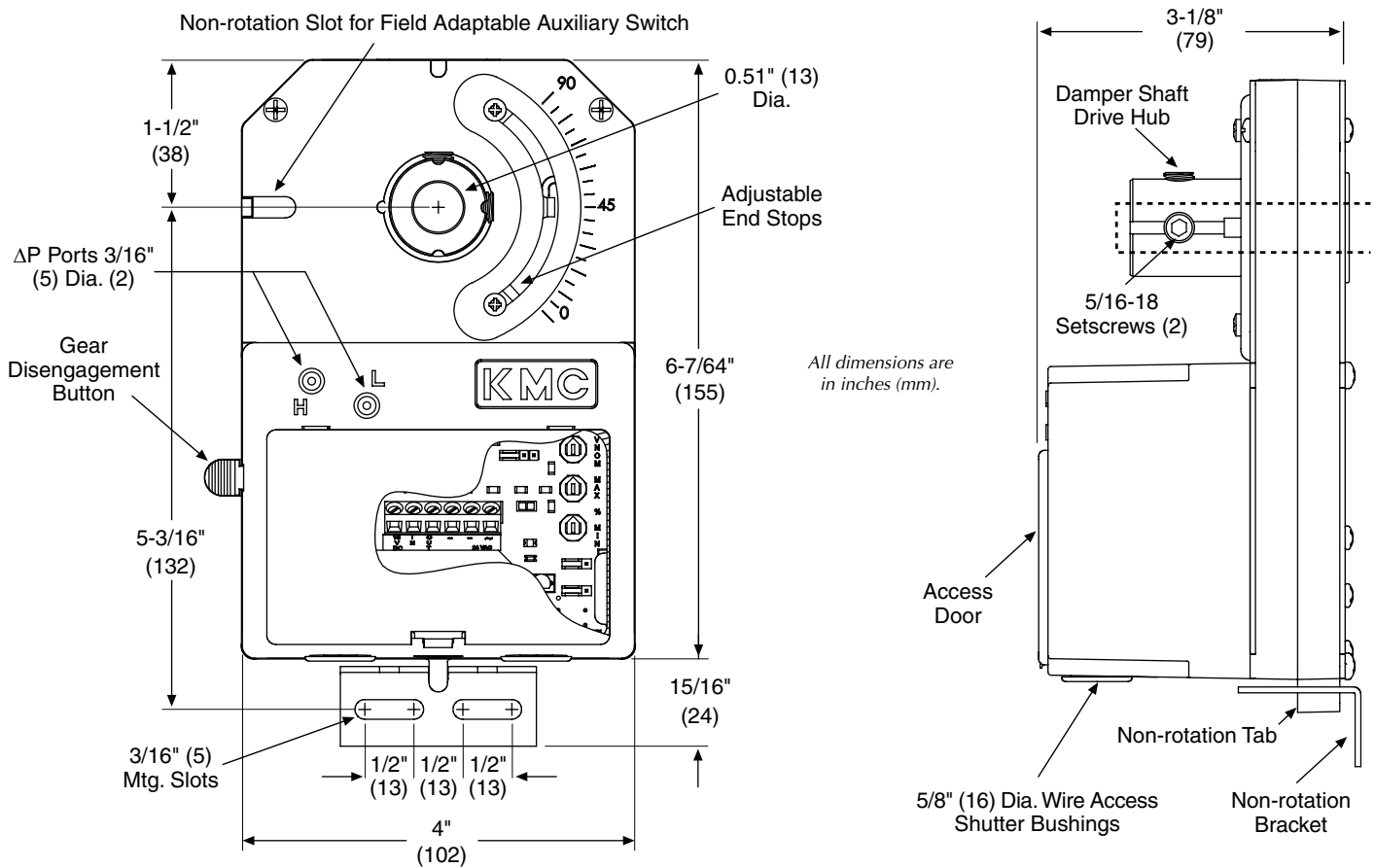
Thermostats

CTE-5100 Series	Thermostats
CTE-5202	Thermostat w/ LCD display

Miscellaneous

HFO-0011	Adaptor for 3/8" shaft
HMO-1003	Replacement non-rotation bracket
HMO-4520	Compression connector for plenum cable
HSO-5001	Test leads

Details



Specifications

Supply Voltage	24 VAC (-15/+20%) 50/60 Hz, Class 2 Only
Supply Power	4 VA max.
Output Supply	16 VDC (at up to 22 mA) to power thermostat
Velocity Range	0 to 3300 fpm (0 to 16.76 m/s), dependent on DP pickup, tubing size/length, and connections
Signal Input	0 to 10 VDC (from thermostat)
Signal Output	0 to 10 VDC (proportional to 0 to 100% flow)
Min./Max. Limits	Adjustable, 0 to 100%
Output Torque	50 in-lb. min., 70 in-lb. max. (5.6 N•m min., 7.9 N•m max.)
Angular Rotation	0 to 95° (both end stops adjustable)
Stroke Time	18° per minute @ 60 Hz, 15° per minute @ 50 Hz
Mounting	Direct to 1/2" (13 mm) diameter shaft or 3/8" (10 mm) diameter with adaptor

Weight	2.4 lbs. (1 kg.)
Material	Flame-retardant polymer, UL94-5V plenum-rated, black housing with white cover
Connections	Wire clamp type, 14 to 22 AWG, copper
Approvals	CE compliant, SASO PCP Registration KSA R-103260
Temperature Limits	
Operating	32 to 120° F (0 to 49° C)
Shipping	-40 to 140° F (-40 to 60° C)

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