

SERIES 08-05 Surface Sensing

Bimetal Temperature Limiting Thermostats
Temperature Range 110°F -210°F



F-08-05-001

April 2021

FEATURES

- Snap Action Switching
- Automatic Reset
- Weather-resistant Epoxy Seal
- Tamper-proof Preset Temperature
- Calibrated Settings from 110 to 210°F (Max)
- 100% Factory Temperature Tested

APPLICATIONS

- Boilers
- Pool Heaters
- Domestic Hot Water Systems
- Hi-Limit and Automatic Gas Shut-off

Note: Application below 120°F is limited to Pool Heaters per ANSI Z21.56.

DESCRIPTION

The Series 08-05 is a stud-type surface sensing high limit thermostat utilizing a bimetal disc. As the temperature reaches the set point, the disc snaps to provide rapid, positive contact actuation, minimizing radio frequency interference and ensuring high reliability.

The sensing element is embedded in a brass housing and potted with epoxy for weather resistance.

The header can be configured to meet a range of application requirements, such as 1/4 NPT threads or an immersion sensing probe. Different terminations and mountings can be made available to adapt to various installation requirements.

AGENCY CERTIFICATIONS



Certified by Canadian Standards Association
File Report No. 2435048
ANSI Z21.87a and CSA 4.6a

RoHS Compliant



SPECIFICATIONS

Electrical Rating	1 Amp at 30 VDC (Resistive) 1 Amp at 120 VAC (Resistive)
Dielectric Strength	1500 VAC terminals to case
Insulation Resistance	100 Megohms minimum at 500 VDC
Switch Action	SPST (Normally open or Normally closed)
Temperature Range	110°F -210°F (43°C to 95°C)
Tolerances	Open $\pm 8^\circ\text{F}$ ($\pm 4.5^\circ\text{C}$) Close $\pm 10^\circ\text{F}$ ($\pm 6^\circ\text{C}$)
Minimum Differential	20°F (17°C)
Housing Material	Brass

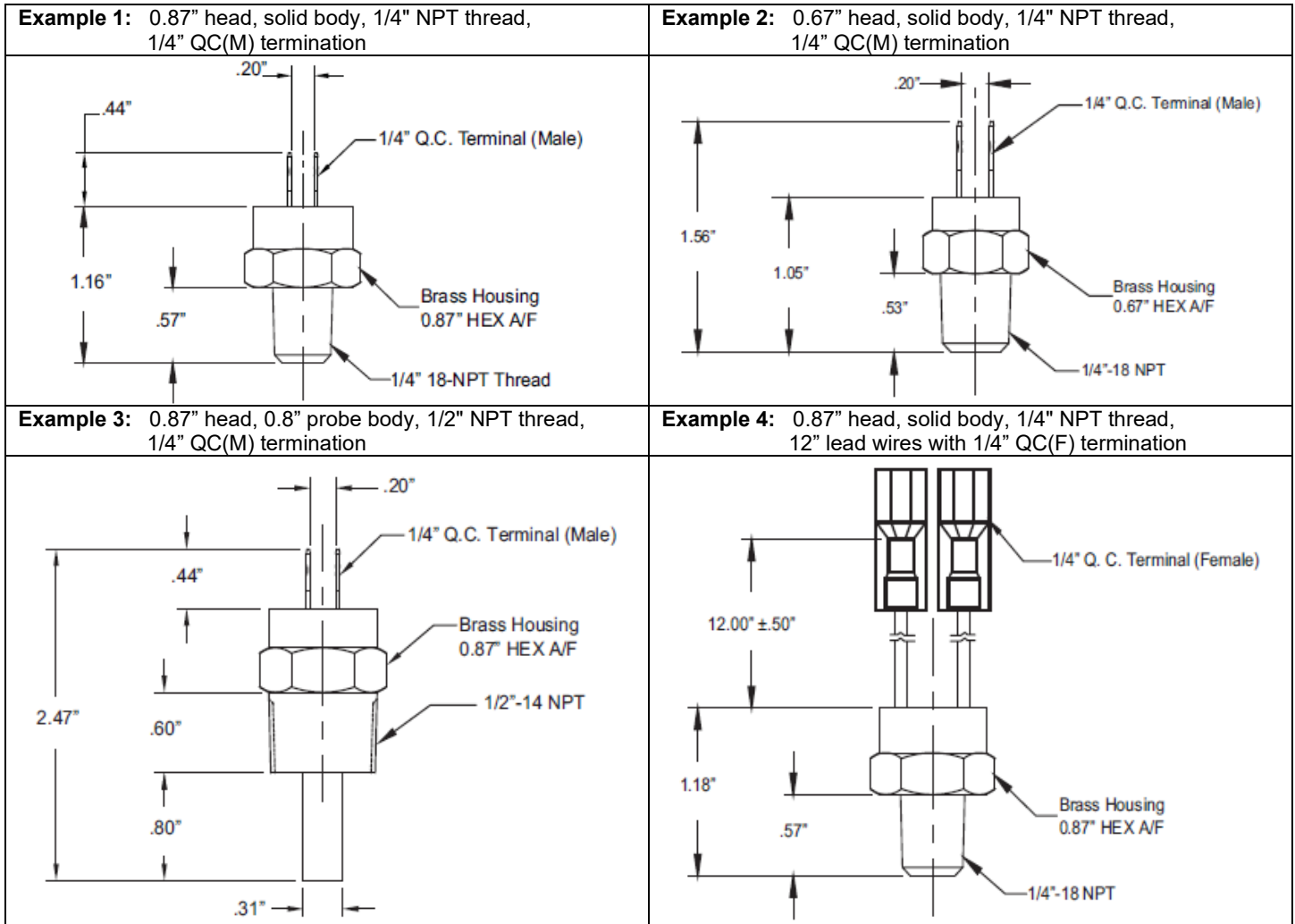
Note: The Fenwal 08-05 is 100% tested at the factory for temperature setting and conformance to specifications. The actual installed performance in the field may vary due to the nature of the installation. The customer is responsible for determining fitness for use in their specific equipment.

Configuration Options

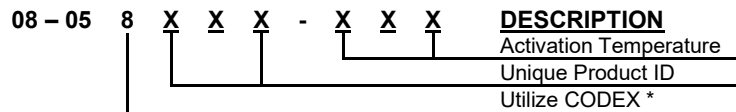
Head Style	0.67" or 0.87" Hex
Body Style	Solid, Hollow, or Probe (Standard Probe 0.8")
Thread Type	1/4", 3/8", or 1/2" NPT
Termination	1/4" QC(M), Lead wires, or Lead wires with QC(M or F) (Standard Lead wires 12")
Teflon Tape	None, 1,2, or 3 wraps (Standard None)

Note: Not all configurations combinations are available.

TYPICAL DIAGRAMS



PART NUMBER CONFIGURATION



* A 9 in this location utilizes a different configuration. Consult factory for specification.

CODEX (ABCDEFF)											
A	Body Style	B	Thread Type	C	Termination	D	Length	E	Teflon Tape	FFF	Wire Length
0	0.87" Hex sealed Unit	1	1/4" NPT	1	.25" Quick Connectors	0	No Probe	0	No wrap	0	No lead wires
2	0.67" Hex Sealed Unit	2	3/8" NPT	2	Lead Wire Male Terminal	1	.5"	1	One wrap	012	12" wires
3	0.87" Hex sealed Unit w/ Probe*	3	1/2" NPT	3	Lead Wire Female Terminal	2	.8"	2	Two wraps		
5	0.67" Hex Sealed Unit w/ Probe*			4	Lead Wire Without Terminal	3	1"	3	Three wraps		
6	0.87" Hex sealed Unit hollow					4	1.5"				
8	0.67" Hex Sealed Unit hollow					5	2"				

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