

MPF Series

Temperature Switch



MPF5TAF & MPF7TAF GENERAL INFORMATION

Technical data

Clogging indicators

Temperature Switch

The MPF5TAF and MPF7TAF model series are bimetallic temperature switches. The MPF5TAF series features a large temperature differential and the MPF7TAF series features a small temperature differential. The sensing element is designed to provide rapid temperature response.

Standard Features

- Temperature switch and sensor
- Compact size
- Low differential

Applications

- Coolant temperature switch/sensor
- Lubrication systems
- Oil reservoir temperature switch/sensor

Materials

Housing: brass

Specification

Electrical: 120/240 VAC - 3A Resistive
120/240 VAC - 2.5A Inductive
12/24 VDC - 3A Resistive
12/24 VDC - 2A Inductive

Contact:

MPF5TAF: silver

MPF7TAF: gold

Switch type: bimetal snap action

Protection: IP65

Probe Length:

MPF5TAF: 3/4"

MPF7TAF: 1/2", 1", 2"

Pressure

Maximum overpressure: 5000 psi (345 bar)

Temperatures

Set point range (factory set):

MPF5TAF: from 130 °F to 300 °F (from 54 °C to 150°C)

MPF7TAF: from 40 °F to 300 °F (from 4 °C to 150°C)

Temperature differential:

MPF5TAF: Approximately 30% of Setpoint

MPF7TAF: Approximately <4% of Setpoint

Temperature exposure limit:

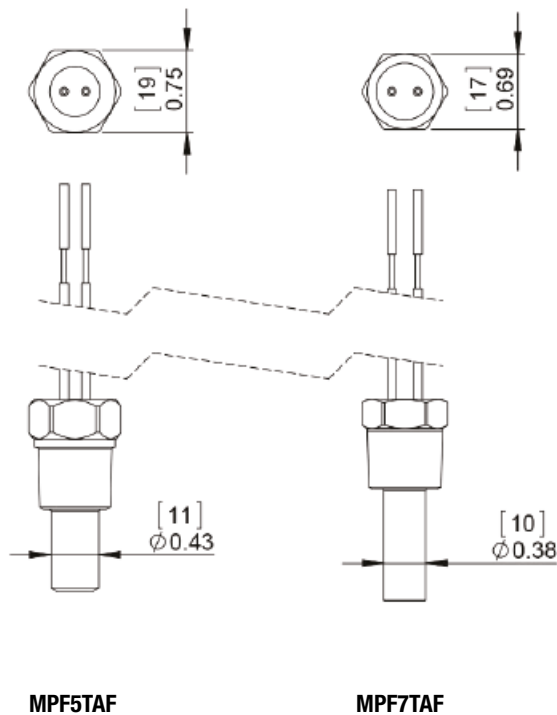
325°F (162°C)

Repeatability: +/- 7°F

Weight

0.15 lbs (0.06 kg)

Dimensions



MPF5TAF & MPF7TAF

Designation & Ordering code

MPF5TAF & MPF7TAF

Series

Configuration example: **MPF5TAF** **120R** **4M08** **A** **FL**

MPF5TAF Approximately 30% of differential (see Specifications Table)

MPF7TAF Approximately <4% of differential (see Specifications Table)

Temperature Selection (Fahrenheit Rising):

MPF5TAF Model	MPF7TAF Model
130R	120R
140R	140R
150R	160R
160R	170R
170R	180R
180R	
190R	
200R	
220R	

Other Setpoints are available upon request. Consult factory for availability.

Thread options

	MPF5TAF Model		MPF7TAF Model	
	3/4" Probe	1/2" Probe	1" Probe	2" Probe
1/4" NPT	4M12	4M08	4M16	4M32
3/8" NPT	6M12	N/A	6M16	N/A
1/2" NPT	8M12	8M08	8M16	8M32
3/4" - 16 SAE with Viton O-ring seal	8S12	N/A	8S16	N/A

Circuit

A SPST (Normally Open)

B SPST (Normally Closed)

Electrical termination

FL Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option

FLWF Flying Lead Weatherpack connector, female, Tower, 10" long leads

FLWM Flying Lead Weatherpack connector, male, Shroud, 10" long leads

FLDP Flying Lead Deutsch connector, plug, 10" long leads

FLDR Flying Lead Deutsch connector, receptacle, 10" long leads

FLCM Flying Lead, Metripack, male, 150 series, 10" long leads

FLCF Flying Lead, Metripack, female, 150 series, 10" long leads

FLPM Flying Lead Metripack 280 connector, male, 10" long leads

FLPF Flying Lead Metripack 280 connector, female, 10" long leads

Other material and options available upon request. Please consult factory for details.

Wiring code

Contact	Flying leads	FLWF / FLWM / FLCM / FLCF / FLPM / FLPF	FLDR / FLDP
Common	Black	PIN A	PIN 1
Normally closed	Black	PIN B	PIN 2
Normally open	Black	PIN B	PIN 2