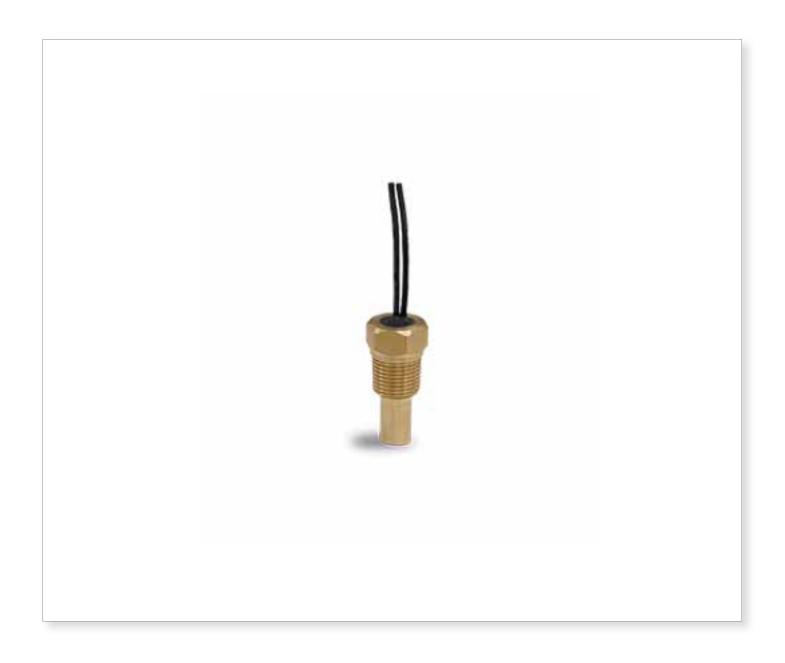


# MPF Series

**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.

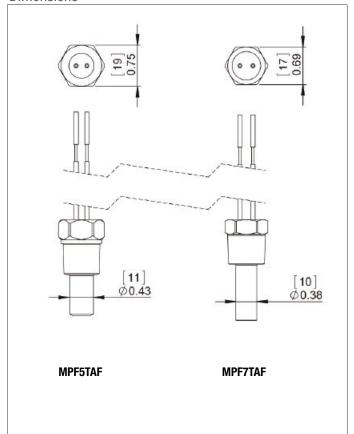
### **Standard Features**

- Temperature switch and sensor
- Compact size
- Low differential

## **Applications**

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

# **Dimensions**



#### **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)



# MPF5TAF & MPF7TAF

Designation & Ordering code

			MPF5TAF	& MPF7TAF				
PFSTAF Approximately 30% of differential (see Specifications Table) PFTTAF Approximately 4-4% of differential (see Specifications Table)  mperature Selection (Farenheit Rising):  MPFSTAF Model  130R  120R  140R  140R  150R  160R  170R  170R  170R  170R  180R  220R  220R  220R  Per Setpoints are available upon request. Consult factory for availability.  read options  MPFSTAF Model  3/4" Probe  1" Probe  3/4" Probe  1" Probe  2" Probe  4" NPT  4M12  4M08  4M16  AM32  3" NPT  6M12  N/A  6M16  N/A  2" NPT  8M12  8M08  8M16  8M32  3" -16 SAE with Viton 0-ring seal  8S12  N/A  8S16  N/A  SPST (Normally Open)  SPST (Normally Closed)  sectrical termination  Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option  WF Flying Lead Weatherpack connector, female, Tower, 10" long leads  DP Flying Lead Deutsch connector, female, Tower, 10" long leads  DP Flying Lead Deutsch connector, plug, 10" long leads  CF Flying Lead Metripack, female, 150 series, 10" long leads  CF Flying Lead Metripack, female, 150 series, 10" long leads  CF Flying Lead Metripack, female, 150 series, 10" long leads  CF Flying Lead Metripack, female, 150 series, 10" long leads  CF Flying Lead Metripack, female, 150 series, 10" long leads  CF Flying Lead Metripack 280 connector, male, 10" long leads  CF Flying Lead Metripack 280 connector, male, 10" long leads  CF Flying Lead Metripack 280 connector, male, 10" long leads  CF Flying Lead Metripack 280 connector, male, 10" long leads  PM Flying Lead Metripack 280 connector, male, 10" long leads  PM Flying Lead Metripack 280 connector, male, 10" long leads  PM Flying Lead Metripack 280 connector, male, 10" long leads  PM Flying Lead Metripack 280 connector, male, 10" long leads	eries	_		Co	nfiguration example : MPF5T/	AF 120R 4W	108 A	
F7TAF Approximately <4% of differential (see Specifications Table)  perature Selection (Farenheit Rising):  MPESTAF Model  130R  140R  140R  150R  160R  170R  170R  170R  170R  180R  200R  220R  220R  220R  220R  220R  220R  210R  **NPT 4M12 4M08 4M16 4M32  **NPT 6M12 N/A 6M16 N/A  **NPT 6M12 N/A 6M16 N/A  **NPT 8M12 8M08 8M16 8M32  ** - 16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A  **SPST (Normally Open)  SPST (Normally Open)  SPST (Normally Open)  SPST (Normally Closed)  **Control of the Series (or one ctor, female, Tower, 10" long leads  **M Flying Lead Weatherpack connector, female, Tower, 10" long leads  **M Flying Lead Weatherpack connector, female, Tower, 10" long leads  **M Flying Lead Weatherpack connector, female, Tower, 10" long leads  **M Flying Lead Weatherpack connector, female, Tower, 10" long leads  **M Flying Lead Weatherpack connector, female, Tower, 10" long leads  **M Flying Lead Weatherpack connector, remale, Tower, 10" long leads  **M Flying Lead Weatherpack connector, remale, Tower, 10" long leads  **M Flying Lead Weatherpack connector, remale, Tower, 10" long leads  **M Flying Lead Weatherpack connector, remale, 150 series, 10" long leads  **M Flying Lead Metripack, female, 150 series, 10" long leads  **M Flying Lead Metripack, female, 150 series, 10" long leads  **M Flying Lead Metripack, female, 150 series, 10" long leads  **M Flying Lead Metripack, female, 150 series, 10" long leads  **M Flying Lead Metripack, 200 connector, remale, 10" long leads  **M Flying Lead Metripack, 200 connector, remale, 10" long leads  **M Flying Lead Metripack, 200 connector, remale, 10" long leads  **M Flying Lead Metripack, 200 connector, remale, 10" long leads  **M Flying Lead Metripack, 200 connector, remale, 10" long leads  **M Flying Lead Metripack, 200 connector, remale, 10" long leads		rential (see Specificati	ons Table)					
mperature Selection (Farenhell Rising):  MPFSTAF Model  130R 140R 140R 140R 150R 160R 160R 170R 170R 170R 170R 180R 190R 200R 220R er Setpoints are avaiable upon request. Consult factory for availability.  read options  MPFSTAF Model 3/4" Probe 1/2" Probe 1" Probe 2" Probe 4M12 4M08 4M16 4M32 "NPT 4M12 4M08 4M16 4M32 "NPT 6M12 N/A 6M16 N/A "NPT 8M12 8M08 8M16 8M32 "- 16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A  spST (Normally Open) SPST (Normally Open) SPST (Normally Closed)  ctrical termination Flying Lead Weatherpack connector, remale, Tower, 10" long leads VM Flying Lead Weatherpack connector, remale, Tower, 10" long leads VM Flying Lead Deutsch connector, receptacle, 10" long leads VM Flying Lead Weatherpack connector, receptacle, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead, Metripack, male, 150 series, 10" long leads VM Flying Lead, Metripack, male, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead, Metripack, male, 150 series, 10" long leads VM Flying Lead Metripack, connector, reale, 10" long leads VM Flying Lead Metripack, connector, remale, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, connector, reale, 10" long leads VM Flying Lead Metripack, connector, reale, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads								
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MPFSTAF Model   MPFSTAF Model   130R   120R   140R   140R   140R   150R   160R   170R   180R   170R   180R   180R   180R   190R   220R   23/4" Probe   1/2" Probe   1" Probe   2" Probe   1" What is a sea available upon request. Consult factory for availability. Fead options   MPFSTAF Model   33/4" Probe   1/2" Probe   1" Probe   2" Probe   1" What is a sea available upon request. Consult factory for availability. Fead options   MPFSTAF Model   1/2" Probe   1" Probe   2" Probe   1" What is a sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. Consult factory for availability. For the sea available upon request. For th	mperature Selection (Farenheit Bisin	ıa):						
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150R 160R 170R 180R 180R 180R 180R 180R 190R 200R 200R 220B ther Setpoints are avaiable upon request. Consult factory for availability. htroad options      MPF5TAF Model	130R	120R						
160R 170R 180R 180R 190R 200R 200R 220R her Setpoints are avaiable upon request. Consult factory for availability. Irread options    MPFTAF Model	140R	140R						
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190R 200R 220R her Setpoints are avaiable upon request. Consult factory for availability. hread options    MPESTAF Model	170R	180R						
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	LPF Flying Lead Metripack 280 cor	nnector, female, $\overline{10"}$ lo	ong leads					
	ther material and options available up	pon request. Please co	onsult factory for de	tails.				

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