

TEMPERATURE SWITCH

These temperature switches are designed specifically for applications where high temperature exposure, hermeticity and vibration resistance are required. A snap acting, bimetal disc, mounted in the tip of the probe, provides fast thermal response and rapid positive contact action when the pre-set temperature is reached.

The probe's body and tube are of all welded, stainless steel construction with glass to metal seals to ensure hermeticity. Switch design and construction provide high vibration and shock resistance. High contact force and the excellent wiping action of the contacts combine to make the probe suitable for light loads of 100 milliamperes or less.

APPLICATIONS

- Transmissions
- Engines
- Hydraulics
- Air compressors
- Refrigeration compressors
- Industrial equipment



SPECIFICATIONS

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Operating Temperature Range:	Tolerance Open	Tolerance Closed	Differential (Nominal)	5A Resistive@120/240VAC 240VA Pilot Duty@120/240VAC 1A Resistive@30VDC 5A Resistive@15VDC 2A Resistive@30VDC (50,000 Cycles) 3A Resistive@30VDC (10,000 Cycles)
9 to 239°F	39°F	39°F	51°F	
-176 to 300°F	42°F	40°F	62°F	
MATERIALS			TERMINATIONS	
Body and tube: 300 Series stainless steel Seal: All welded construction with glass to metal seals Headfill: Black epoxy Contacts: Fine silver			8-32 screw terminals, 45° offset 	

ORDERING INFORMATION

PERFORMANCE	
Switch action:	SPST open or close on temperature rise
Dielectric strength:	1500 VAC terminals to case
Insulation resistance:	100 Megohms at 500VDC
Vibration:	Exceeds MIL-STD-202D, method 204B, condition D: 20 G, 10-5000 Hz
Thermal shock:	MIL-STD-202D, method 107C
Mechanical shock:	MIL-STD-202D, method 213A; 100 G, 10 ms
Working pressure:	600 PSI up to 350°F (177°C)
Ambient range:	-50 to +400°F (-45 to +200°C)

Part No.	Rising Switch Point	Contact Arrangement	Terminals & Mounting Threads
Normally closed			
1763	205F	Normally Closed	2T 3/8NPT
1764	212F	Normally Closed	2T 3/8NPT
1765	220F	Normally Closed	2T 3/8NPT
1766	230F	Normally Closed	2T 3/8NPT
2412	230F	Normally Closed	2T spade 3/8NPT
1767	250F	Normally Closed	2T 3/8NPT
7166	265F	Normally Closed	2T 3/8NPT
1768	275F	Normally Closed	2T 3/8NPT
7167	280F	Normally Closed	2T 3/8NPT
7168	300F	Normally Closed	2T 3/8NPT
Normally open			
2073	205F	Normally Opened	2T 3/8NPT
2219	212F	Normally Opened	2T 3/8NPT
2218	220F	Normally Opened	2T 3/8NPT
1359	266F	Normally Opened	2T 3/8NPT

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