

100 Series Thermal Switch

Honeywell's 100 Series Thermal Switch is designed for non-hermetic applications. The bimetallic disc harnesses a micro-switch that is qualified to MIL-STD-8805, UL, CSA, and CE. This series is capable of handling 7 amperes resistive load at 120 VAC, and 7 amperes at 28 VDC.

The device is available in various exterior materials. This enables the 100 Series to meet rugged performance requirements.

This product is also available in the same packaging configurations as the 500 Series product line. To view these options, visit www.thermalswitch.com, or contact the factory for more information.

The 100 Series Thermal Switch can be customized to add lead wires

Application Examples:

- Surface temperature sensor
- Water
- Hydraulics
- Refrigeration
- Battery
- Air temperature
- Box temperature
- Overheat and/or regulation of all applications listed above



Features

- High ampere rating
- Epoxy sealed
- Ambient temperatures from -65°F to 400°F
- Differential Range from 5°F to 40°F
- High vibration resistance
- Crisp SPST and SPDT contact operation
- Fast response to thermal changes

Specifications for 100 Series Thermal Switch

Performance	
Contact Arrangement:	SPST and SPDT
Contact Ratings:	7 amperes resistive load at 120/240 VAC RMS 7 amperes resistive load at 28 VDC
Endurance:	100,000 cycles minimum at rated DC or AC loads
Insulation Resistance:	500 megohms minimum at 500 VDC
Dielectric With-standing Voltage:	1500 VAC RMS - terminals to case, 500 microamperes maximum leakage
Environmental	
Vibration:	Method 204, Condition D, 20g peak, 10 to 2000 Hz
Shock:	Method 213, Condition I, 100g peak, 6ms
Acceleration:	Method 212, Condition A, 20g
Tolerance Limits	
Specified Temp Setpoint Range °F (°C) -45 to 250 (-43 to 121)	Standard Setpoint Tolerance °F (°C) ±5 (2.8)

Sample Ordering Code

Once written, your ordering code becomes the specific part number, as this example illustrates

Configuration shown in drawing

S = CRES

Lower temperature setpoint at 100°F ±5°

A = Open on temperature rise

B = Close on temperature rise

Upper temperature setpoint at 112°F ±5°F

Special Tolerances

Special Physical Features

UNIT #						
1	2	3	4	5	6	7
151	S	100	A	112	X/X/X	/X

UNIT 6: Non-standard tolerances may also be defined by the ordering code by using a "/" separator.

For example: 151S133A155/4/4/7 specifies ±4°F tolerance on UNIT 3 temperature, ±4°F tolerance on UNIT 5 temperature, and 7°F minimum differential

Find out more:

www.thermalswitch.com

Defense & Space Redmond

Honeywell International, Inc.

MAIL ADDRESS: P.O. Box 97001

15001 N.E. 36th Street

Redmond, Washington 98073-9701

PHONE: 888 206 1667

FAX: 425 883 2104

www.honeywell.com

ISO-9001 Certification Since 1995

DISCLAIMER: Specifications are subject to change without notice. Honeywell reserves the right to make changes to any product or technology herein to improve reliability, function, or design. Honeywell does not assume any liability arising out of the application or use of the product.

TS100 1/2007, EXP051
Copyright © 2004,
Honeywell International Inc.
All Rights Reserved.
Printed in USA

Honeywell