

Heavy-Duty Temperature Switches

Performance and Reliability “Beyond the Basics”

- ◆ Exceptional vibration immunity
- ◆ Long life – up to 1,000,000 cycles or more
- ◆ Fast response, superior accuracy for improved efficiency
- ◆ Stable, drift-free switching temperatures
- ◆ Versatile to fit wide range of applications
- ◆ Customizable specifications & features
- ◆ Proven performance on millions of engines & vehicles



Gives engines, heavy vehicles, and industrial equipment years of optimized, trouble-free temperature control

A Simple Choice for Better Performance

The basic function of a mechanical temperature switch is straightforward: Turn something on or off at a given temperature.

With Index Temperature Switches, you get more than the basics. We build switches to deliver improved performance and cost control for your engine, vehicle or equipment.

Efficiency from Precise Temperature Control

Chances are there are particular set and reset temperatures that are optimal for your application, where energy and operating cost efficiencies are maximized. With Index switches' tight tolerances, fast response, and specifiable reset points, your equipment runs precisely and evenly, at just the right temperature.

Long Life and Vibration Resistance

We designed our Temperature Switches for years of service under tough, high duty-cycle conditions. Because vibration sensitivity can shorten the life of both a temp switch and your equipment, Index Temperature Control Switches put up a double line of defense against vibration with two snap-action elements. A crisp-response temperature disc triggers a Honeywell Micro Switch™, assuring clean, no-chatter electrical switching. Both elements can deliver up to a million cycles or more.

Temperature control, indication, warning, alarm, and monitoring for:

Engine cooling fans

Radiator shutters

Transmissions

Hydraulic fluid

Heating elements

Water reservoirs

Heat exchanger valve actuation

Dashboard overtemp indicators

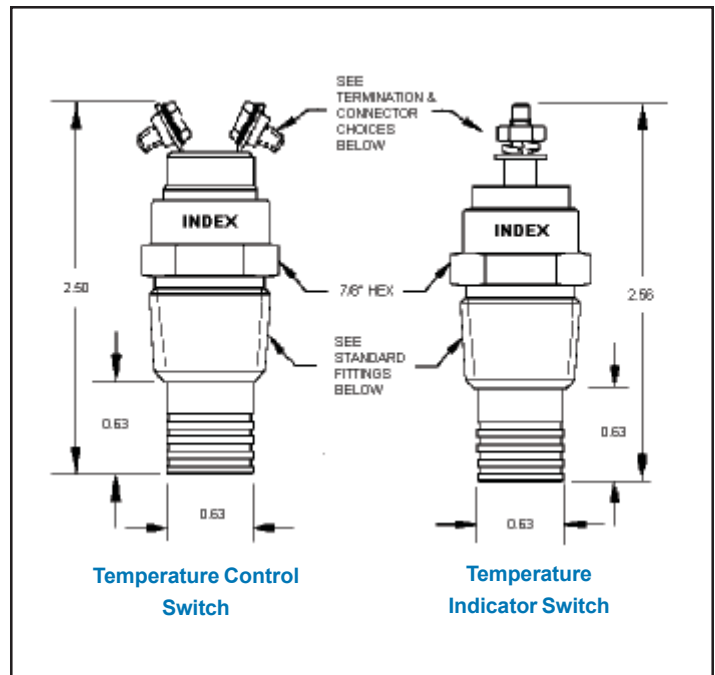
Accessory implement monitoring & interlocks

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Solutions that Make Sense

Since 1976, Index has developed and provided reliable, advanced technology solutions for the tough requirements of the heavy-truck, bus, RV, off-road, engine and industrial equipment industries. Our switches, sensors and controls add greater precision, reliability, protection and intelligence so your equipment can perform at its best.

Call on our engineering and support services about information and new options for reaching your technical and bottom-line objectives.



Index Heavy-Duty Mechanical Temperature Switches are ideal for a variety of temperature control and indication applications for industrial engines, vehicles, and equipment

Specification Ranges and Options

| | Temp Control Switches The Index standard | Temp Indicator Switches For lighter duty applications |
|---|---|---|
| Application Criteria | Heating or cooling device control moderate to high duty cycles higher current levels, tight tolerance and specifiable set and reset points | Warning light or alarm signal, light duty cycle and current load |
| Set Point Temperatures | 100 °F to 300 °F in 5 ° increments (38 °C to 148 °C in 2.5 ° increments) | 150 °F to 300 °F in 5 ° increments (65 °C to 148 °C in 2.5 ° increments) |
| Set Point Tolerance | ± 2.5 °F to 220 °F ± 5 °F from 225 to 265 °F ± 10 °F over 265 °F ± 1.5 °C to 104 °C ± 3 °C from 105 to 118 °C ± 6 °C over 118 °C | ± 2.5 °F to 220 °F ± 5 °F from 225 to 245 °F ± 10 °F over 245 °F ± 1.5 °C to 104 °C ± 3 °C from 105 to 129 °C ± 6 °C over 129 °C |
| Typ Differential/Hysteresis/Reset Pt | 10 °F max below set pt to 220 °F 15 °F from 225 to 245 °F 20 - 30 °F max over 245 °F | 10 °F max below set pt to 220 °F 15 °F from 225 to 245 °F 20 - 30 °F max over 245 °F |
| Electrical Switch Mode | SPDT: Normally Open, Normally Closed or NO & NC (CO) | SPST: Normally Open or Normally Closed |
| Termination Options | 2 or 3 terminals or wires Straight spade, screw terminals, lead wires with Weatherpack, Metripack, Deutsch. Other termination options available. | Single screw terminal, case-ground |
| Current Rating | 10 mA to 7 amps resistive, 4 amps inductive | 1 amp resistive at 12 VDC |
| System Voltage | 12 to 24 VDC, 120 to 240 VAC | 12 to 24 VDC |
| Fitting / Thread Options | 3/8" & 1/2" NPTF, 3/4"-16 UNF, M22, M27 threads. Other options available | |
| Exposure Temperature Range | 40 to 350 °F (-40 to 176 °C) | |

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