

# Go “beyond the basics” with Index Heavy-Duty Temperature Switches

The basic function of a mechanical temperature switch is to turn something on or off at a given temperature. Our temperature switches were designed for years of service under tough, high duty-cycle conditions.

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

## Heavy-Duty Temperature Switches

- Exceptional vibration immunity.
- Long life – up to 1 million cycles or more.
- Fast response and superior accuracy for improved efficiency.
- Stable, drift-free switching temperatures.
- Versatile to fit a wide range of applications.
- Customizable specifications and features.
- Proven performance on millions of engines and vehicles.
- Numerous fittings and connectors available.

### ■ 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.

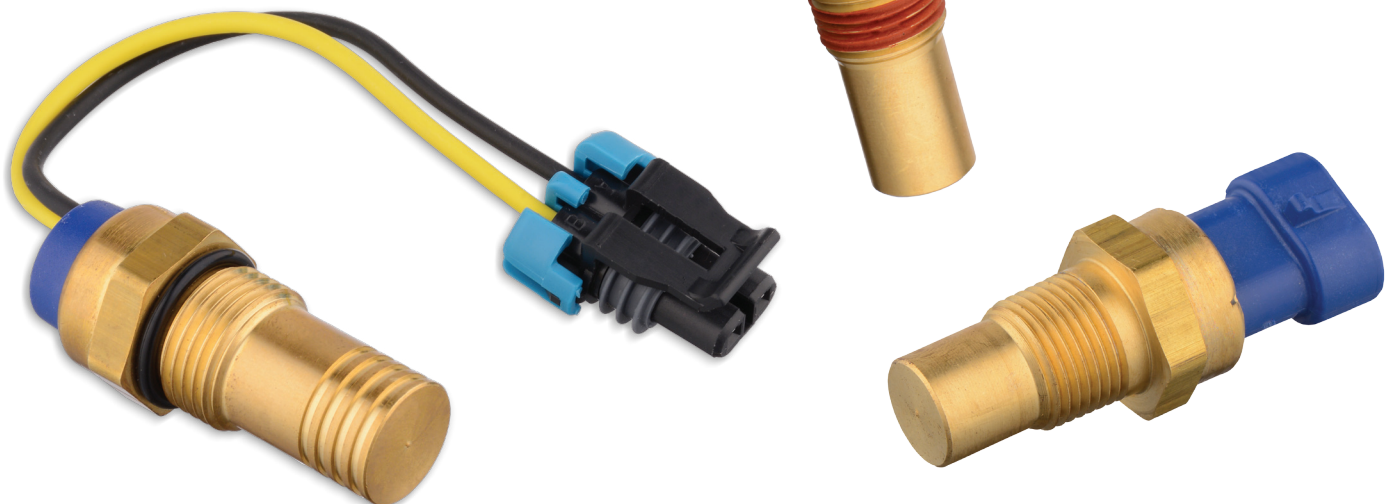
### ■ Long life and vibration resistance

We designed our Temperature Switches for years of service under tough, high duty-cycle conditions. Because vibration sensitivity can significantly 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. Crisp-response dual-temperature discs trigger a heavy-duty 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
- Transmissions
- Heating elements
- Heat exchange valve actuation
- Accessory implement monitoring & interlocks
- Dashboard overtemp indicators
- Water reservoirs
- Radiator shutters
- Hydraulic fluid



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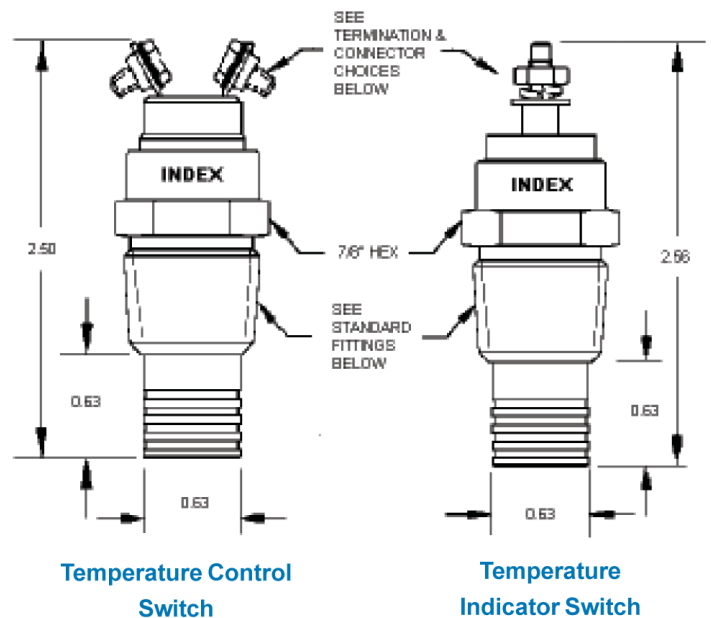
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sales@indexsensors.com ■ www.indexsensors.com

# Heavy-Duty Temperature Switches

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

## Solutions that Make Sense

For over 40 years, Index Sensors and Controls, Inc., has been a leading manufacturer of switches, sensors, and controls for the commercial truck, engine, agricultural, off-road, and industrial equipment markets. Our products monitor, control, and protect some of the world's toughest equipment.



## Specification Ranges and Options

	Temperature Control Switches The INDEX Standard	Temperature Indicator Switches For lighter-duty applications
<b>Application Criteria</b>	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
<b>Set Point Temperatures</b>	100° F to 200° 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)
<b>Set Point Tolerance</b>	±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
<b>Typical Differential/Hysteresis/Reset Point</b>	10° F max below set point to 220° F 15° F from 225 to 245° F 20-30° F max over 245° F	10° F max below set point to 220° F 15° F from 225 to 245° F 20-30° F max over 245° F
<b>Electrical Switch Mode</b>	SPDT: Normally Open, Normally Closed or NO & NC (CO)	SPST: Normally Open or Normally Closed
<b>Termination Options</b>	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
<b>Current Rating</b>	10 mA to 7 ams resistive, 4 ams inductive	1 amp resistive at 12 VDC
<b>System Voltage</b>	12 to 24 VDC, 120 to 240 VAC	12 to 24 VDC
<b>Fitting/Thread Options</b>	3/8" & 1/2" NPTF, 3/4"-16 UNF, M22, M27 threads. Other options available	
<b>Exposure Temperature Range</b>	40 to 350° F (-40 to 176° C)	

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# Temperature Control Switches

With over 2,000 SKUs, many other parts are available – call or email for information.

## Heavy-Duty Temperature Switches

### Two Terminals – 1/2" NPT Housing

Temp °F	Mode	Terminals or Connector			INDEX P/N	Direct Replacement Medallion P/N	Old Kysor P/N	Direct Replacement Horton P/Ns	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Screw	Weatherpack Shroud	Metripack Shroud						
105	NO	◆			8037106			15949		
120	NO	◆			8037134	1002-05850-16				
150	NO	◆			8037013	1002-05554-22	1002-05850-22	993662, 15953		
160	NO	◆			8037240			993656, 16452		
165	NO	◆			8037108	1002-05554-25	1002-05850-25			
180	NO	◆			8037014	1002-05554-28	1002-05850-28	993615, 15944		
185	NO	◆			8037018	1002-05554-29	1002-05850-29	993616, 15942	1002-07988-29	
190	NO	◆			8037022	1002-05554-30	1002-05850-30	993617, 15943	1002-07988-30	
195	NO	◆			8037026	1002-05554-31	1002-05850-31	993653, 15957	1002-07988-31	
200	NO	◆			8037030	1002-05554-32	1002-05850-32	993654, 15954	1002-07988-32	
200	NO			◆	8037225					
205	NO	◆			8037034	1002-05554-33	1002-05850-33	993655, 15940, 15954	1002-07988-33	
210	NO	◆			8037037	1002-05554-34	1002-05850-34	993624, 15947	1002-07988-34	
215	NO	◆			8037184	1002-05554-35	1002-05850-35	993625, 15945	1002-07988-35	
220	NO	◆			8037041	1002-05554-36	1002-05850-36	993626, 15948	1002-07988-36	
250	NO	◆			8037111	1002-05554-42	1002-05850-42			
300	NO	◆			8037112	1002-05554-52	1002-05850-52	15946		
165	NC	◆			8037107	1002-07393-25				
185	NC	◆			8037016	1002-07393-29		993619, 15952	1002-07479-29	
190	NC	◆			8037020	1002-07393-30		993603, 15939	1002-07479-30	
195	NC	◆			8037024	1002-07393-31		993605, 15949	1002-07479-31	
200	NC			◆	8037188					
200	NC	◆			8037028	1002-07393-32		993606, 15941	1002-07479-32	
205	NC	◆			8037032	1002-07393-33		993607, 15940	1002-07479-33	
210	NC	◆			8037036	1002-07393-34			1002-07479-34	
215	NC	◆			8037039	1002-07393-35		993665	1002-07479-35	
220	NC	◆			8037040	1002-07393-36			1002-07479-36	

### Three Terminals – 1/2" NPT Housing

Temp °F	Mode	Terminals or Connector			INDEX P/N	Direct Replacement Medallion P/N	Old Kysor P/N	Direct Replacement Horton P/Ns	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Screw	Weatherpack Shroud	Metripack Shroud						
180	CO	◆			8037044					
185	CO	◆			8037045					Nav 1685131C92
190	CO	◆			8037048					
195	CO	◆			8037050					Nav 1685132C92
200	CO	◆			8037053					
205	CO	◆			8037055					Nav 1685171C92
210	CO		◆		8037228					
220	CO	◆			8037061					
225	CO	◆			8037126	1002-04880-37			102-07955-37	

\* Replace Metripack connector on harness with ring terminals.  
All temperatures in degrees fahrenheit.

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# Temperature Control Switches (continued)

With over 2,000 SKUs, many other parts are available – call or email for information.

## Heavy-Duty Temperature Switches (continued)

### Two Terminals – 3/8" NPT Housing

Temp °F	Mode	Terminals or Connector			INDEX P/N	Direct Replacement Medallion P/N	Old Kysor P/N	Direct Replacement Horton P/Ns	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Screw	Weatherpack Shroud	Metripack Shroud						
180	NO	◆			8037183	1002-05825-28				
195	NO	◆			8037082		993610	P-1602		
220	NO		◆		8037163					
250	NO		◆		8037169					
150	NC	◆			8037121	1002-07393-22			1002-07479-22	

### Three Terminals – 3/8" NPT Housing

Temp °F	Mode	Terminals or Connector			INDEX P/N	Direct Replacement Medallion P/N	Old Kysor P/N	Direct Replacement Horton P/Ns	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Screw	Weatherpack Shroud	Metripack Shroud						
140	NC	◆			8037142	1002-04880-20				
160	CO	◆			8037090	1002-04880-24				
180	CO	◆			8037175	1002-04880-28				
185	CO	◆			8037176	1002-04880-29				
190	CO	◆			8037177	1002-04880-30			102-07955-30	
195	CO	◆			8037093	1002-04880-31			102-07955-31	
200	CO	◆			8037178	1002-04880-32			102-07955-32	
205	CO	◆			8037179	1002-04880-33			102-07955-33	
210	CO	◆			8037180	1002-04880-34			102-07955-34	
215	CO	◆			8037098	1002-04880-35			102-07955-35	
220	CO	◆			8037099	1002-04880-36			102-07955-36	
240	CO	◆			8037127	1002-04880-40			102-07955-40	
250	CO	◆			8037224	1002-04880-42			102-07955-42	
255	CO	◆			8037181	1002-04880-43				

\* Replace Metripack connector on harness with ring terminals.  
All temperatures in degrees fahrenheit.

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# Temperature Control Switches (continued)

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## Heavy-Duty Switches for Cummins® Applications

Housing 1/2" NPTF	Connector	INDEX P/N	Cummins Equivalent
◆	Integrated	<b>8037318</b>	3408624
◆	Integrated	<b>8037445</b>	3408625
◆	Integrated	<b>8037319</b>	3408626
◆	Integrated	<b>8037320</b>	3408627
◆	Integrated	<b>8037374</b>	3408629
◆	Integrated	<b>8037321</b>	3408631
◆	Integrated	<b>8037375</b>	3408632
◆	Integrated	<b>8037372</b>	3408634
◆	Integrated	<b>8037377</b>	3408635
◆	Integrated	<b>8037380</b>	3408636
◆	Integrated	<b>8037322</b>	3408639
◆	Integrated	<b>8037316</b>	3408643
◆	Integrated	<b>8037317</b>	3408645
◆	Integrated	<b>8037429</b>	4954948

## Overtemp Warning Switches

### One Terminal – 1/2" NPT Housing

Temp °F	Mode	Terminals or Connector		INDEX P/N	Direct Replacement Medallion P/N	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Stud	1/4" Spade				
160	NO	◆		<b>8039076</b>			
180	NO	◆		<b>8039057</b>	1002-05511-28	1002-07690-28, 1002-07324-28	
190	NO	◆		<b>8039058</b>	1002-05511-30	1002-07690-30, 1002-07324-30	
195	NO	◆		<b>8039064</b>	1002-05511-31	1002-07690-31, 1002-07324-31	
200	NO	◆		<b>8039065</b>	1002-05511-32	1002-07690-32, 1002-07324-32	
205	NO	◆		<b>8039054</b>	1002-05511-33	1002-07690-33, 1002-07324-33	
205	NO	◆		<b>8039034</b>	1002-05811-34		
210	NO	◆		<b>8039014</b>	1002-05511-34	1002-07690-34, 1002-07324-34	
215	NO	◆		<b>8039019</b>	1002-05511-35	1002-07690-35, 1002-07324-35	
220	NO	◆		<b>8039023</b>	1002-05511-36	1002-07690-36, 1002-07324-36	
225	NO	◆		<b>8039025</b>	1002-05511-37	1002-07690-37, 1002-07324-37	
230	NO	◆		<b>8039026</b>	1002-05511-38	1002-07690-38, 1002-07324-38	
250	NO	◆		<b>8039066</b>	1002-05511-42	1002-07690-42, 1002-07324-42	
260	NO		◆	<b>8039078</b>			
300	NO	◆		<b>8039029</b>	1002-05511-52	1002-07690-52, 1002-07324-52	
185	NC	◆		<b>8039050</b>			Thomas 61230658
190	NC	◆		<b>8039010</b>	1002-05768-30	1002-07474-30, 1002-07449-30	
195	NC	◆		<b>8039056</b>	1002-05768-31	1002-07474-31, 1002-07449-31	
200	NC	◆		<b>8039067</b>	1002-05768-32	1002-07474-32, 1002-07449-32	
205	NC	◆		<b>8039068</b>	1002-05768-33	1002-07474-33, 1002-07449-33	
210	NC	◆		<b>8039012</b>	1002-05768-34	1002-07474-34, 1002-07449-34	
215	NC	◆		<b>8039017</b>	1002-05768-35	1002-07474-35, 1002-07449-35	
220	NC	◆		<b>8039021</b>	1002-05768-36	1002-07474-36, 1002-07449-36	

\* Replace Metripack connector on harness with ring terminals.  
All temperatures in degrees fahrenheit.

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# Temperature Control Switches (continued)

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## Overtemp Warning Switches

### One Terminal – 3/8" NPT Housing

Temp °F	Mode	Terminals or Connector		INDEX P/N	Direct Replacement Medallion P/N	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Stud	1/4" Spade				
165	NO	◆		8039059	1002-05811-25		
190	NO	◆		8039071	1002-05811-30	1002-07700-30, 1002-07450-30	
200	NO	◆		8039032	1002-05811-32	1002-07700-32, 1002-07450-32	
205	NO	◆		8039051	1002-05811-33	1002-07700-33, 1002-07450-33	
210	NO	◆		8039034	1002-05811-34	1002-07700-34, 1002-07450-34	
215	NO	◆		8039052	1002-05811-35	1002-07700-35, 1002-07450-35	
220	NO	◆		8039039	1002-05811-36	1002-07700-36, 1002-07450-36	
225	NO	◆		8039041	1002-05811-37	1002-07700-37, 1002-07450-37	
230	NO	◆		8039042	1002-05811-38	1002-07700-38, 1002-07450-38	
250	NO	◆		8039045	1002-05811-42	1002-07700-42, 1002-07450-42	
300	NO	◆		8039072	1002-05811-52	1002-07700-52, 1002-07450-52	
200	NC	◆		8039031			Thomas 61230646
205	NC	◆		8039069	1002-05769-33	1002-07338-33, 1002-07476-33	
210	NC	◆		8039070	1002-05769-34	1002-07338-34, 1002-07476-34	
220	NC	◆		8039053	1002-05769-36	1002-07338-36, 1002-07476-36	

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