

FALL / WINTER



Product / Parts Catalog



INDEX
SENSORS  CONTROLS

When quality matters

Index Sensors & Controls, Inc.

is 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.

For over 40 years, Index has built a reputation for designing and producing products that stand up to the harshest environments.

Index Sensors is a supplier to the world's most demanding equipment manufacturers, including Cummins, Caterpillar, John Deere, all makes of Class 8 trucks, and a wide range of specialty original equipment manufacturers (OEMs).

We continue to expand our focus on helping industrial vehicle manufacturers, equipment OEMs, and users add innovation and efficiency to their products.

Index's switches, sensors, and controls play a growing role "behind the scenes" improving basic machine operation, as well as benefit equipment users with easier operation, diagnostics, and lower maintenance costs.

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Index's sensor and switch manufacturing facility and headquarters are located in Bellingham, Washington, 90 miles north of Seattle on the I-5 corridor.

Constructed to LEED Gold standards, our building was designed to support Index's advanced engineering and quality labs, world-class manufacturing processes, flexible layout, effective inventory management, and advanced computer information system.

We are a Tier 1 OEM supplier to over 50 engine and vehicle producers.

Index maintains an industry-leading 2-week turn-around for standard catalog items with a 99% on-time delivery rate.

Looking for custom-engineered items? We are happy to work with you to develop and manufacture products to fit your specific application. See page 22 for more information or call toll free (800) 726-1737.

Index has been IATF 16949:2016 (TS16949) certified since 2017.

Part of our company

mission is to have satisfying relationships with our customers. We appreciate your business and strive to delight each customer throughout every stage of your order.

■ Customer Support

Representatives are available to assist you with your order. They can answer your questions about orders in process and the availability of new or existing products. Reach our representatives toll free at (800) 726-1737 or via email: customersupport@indexsensors.com

■ Sales Support

At Index, we are always looking for ways we can help enhance your products and your business – and make your life a little easier in the process. Whether you are looking for rugged and reliable products, smarter components or custom-engineered controls, we are ready to help.

If you are interested in learning more about Index products, please call (800) 726-1737 or via email: sales@indexsensors.com

■ Technical Support

We understand that technical questions come up over the life of our products. To help with these questions, contact our technical support staff for additional information about any of our products at (800) 726-1737 or (360) 629-5200, or via email: customersupport@indexsensors.com



Index offers a variety of ways to order...

Original Equipment Manufacturers

Index provides components and custom-engineered products to Original Equipment Manufacturers (OEMs) in a variety of fields: heavy-duty highway (truck & bus), automotive, construction, agriculture/lawn care, marine, defense, and assorted industrial applications.

If your company is an OEM or if you need particular performance characteristics or design features for your application, give us a call at (800) 726-1737 or contact us via email at: [OEMSALES@INDEXSENSORS.COM](mailto: OEMSALES@INDEXSENSORS.COM)



Aftermarket Independent Distributor

In addition to OEM distributors, our products are also carried by independent heavy-duty parts distributors all over the world. Some parts can be rushed for next-day delivery. Contact us to locate a distributor near you.



Aftermarket Heavy Vehicle Dealers

Index parts are carried by OEM dealers and distributors. Contact your local OEM truck dealer to purchase.

The Index family of products

AIR CONDITIONING CONTROLS

Protective controls that extend life and service intervals for air conditioning systems by preventing heat and over-cycling damage from improper pressures and voltage. Includes ACX-10 A/C Life Extender and APAdS A/C Protection and Diagnostic System.

ELECTRONIC TEMPERATURE SWITCHES

Custom-programmable flexibility and functionality including multiple outputs, timed switching, blink signals, PWM, and more. Highly accurate temperature monitoring, control, overtemp warning, and shutdown for engines and industrial equipment.

MECHANICAL TEMPERATURE AND PRESSURE SWITCHES

Temperature control and monitoring for engines, hydraulics, and similar applications in on- and off-road vehicles as well as stationary equipment. Pressure switch applications include air conditioning, transmission, air pressure, hydraulic, brake fluid, and oil pressure.

EMBEDDED CONTROL MODULES

Flexible "distributed intelligence" modules applying custom-programmed control logic to a variety of potential inputs. Can include user interface panels or keypads.

LIQUID LEVEL PROBES

Liquid sensing probes improve the reliability and operation of your vehicle: Coolant Level probes increase the overall longevity of your vehicle engine and Water-In-Fuel probes keep your engine running smoothly without costly repairs or downtime.

SENSORS (LEVEL, TEMPERATURE, PRESSURE, POSITION)

Heavy-duty aftermarket replacement sensors for a variety of both on- and off-highway applications.



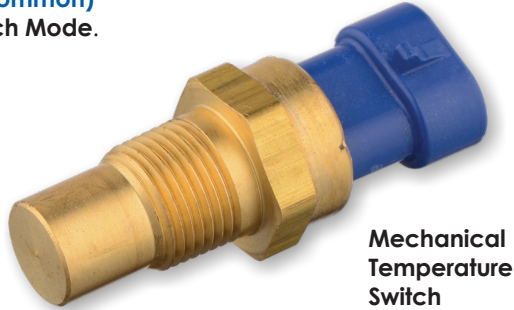
Key definitions

■ Burst Pressure

The maximum pressure that can be applied to a pressure device without risking catastrophic damage. A switch's burst pressure should exceed the maximum potential pressure in the system, including under abnormal conditions. Index burst pressures were validated within the switch temperature range (-40° to 260° F). Burst pressure for Index pressure switches is 2500 psi.

■ CO (Common)

See **Switch Mode**.



Mechanical
Temperature
Switch

■ Differential

The pressure or temperature difference between the rising contact actuation set point and the falling contact de-actuation reset point. Also sometimes referred to as **hysteresis**.

■ Electrical Environment

Index switches are designed for 12 to 24 volts DC systems and have current ratings typically in the range of 5-7 amps. Higher current and dry circuit devices are available.

■ Falling Contact De-actuation

The pressure or temperature at which the switch changes electrical contact state (closed to open, or open to closed) when the pressure or temperature is falling. Also known as **reset point**.

■ Fan Trigger Pressure Switch

Turns on engine fan to lower A/C system pressure when set point is reached, either directly or by signaling an Engine Control Mode. Mounted on the high-pressure side of a compressor.

■ High Pressure Cutout Switch

Prevents A/C system damage due to excessive pressure by disabling the A/C compressor when pressure exceeds the set point. Allows the compressor to resume when the pressure drops below the reset point. Mounted on or near the receiver dryer.

■ Inductive Load

An electrical load from coil-type devices such as solenoids, relays, and electromagnetic clutches. When an inductive circuit is switched open, the energy stored in the coil rushes backwards through the circuit. This sometimes causes arcing at the electric contacts. See also **Resistive Load**.

■ Low Pressure Cutout Switch

Prevents system damage due to low pressure or low refrigerant charge by disabling the A/C compressor when pressure drops below the reset point. Allows the compressor to resume when the pressure rises above the set point. Mounted on the low-pressure side of the compressor.

■ Nominal Pressure (referring to rising set versus falling reset point)

Nominal operating pressure is designated based on what is the most important for the switch's function. For switches responding to decreasing pressure conditions, the falling reset point should be designated as nominal. For switches responding to increasing pressure conditions, the rising set point should be designated as nominal.

■ NC (Normally Closed)

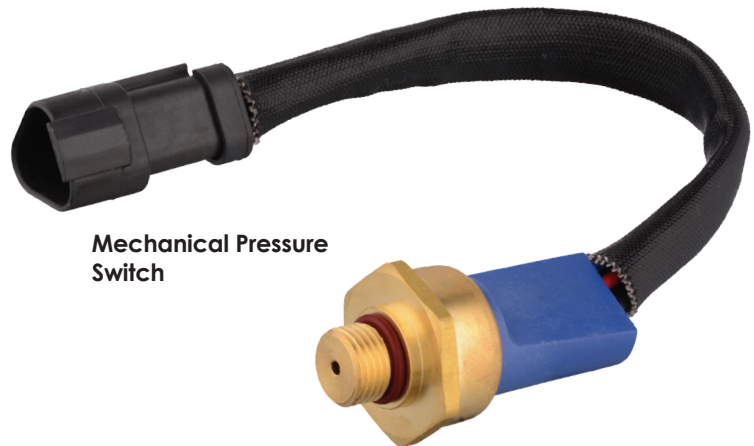
See **Switch Mode**.

■ NO (Normally Open)

See **Switch Mode**.

■ Proof Pressure

The maximum pressure that can be applied to a pressure switch without harming its operating characteristics. A switch's proof pressure should exceed the system's maximum pressure under expected normal operating conditions (including pressure spikes). Proof pressure for Index pressure switches is 650 psi.



Mechanical Pressure
Switch

■ Reset Point

The pressure or temperature at which the switch changes electrical contact state (closed to open, or open to closed) when the pressure or temperature is falling. Also known as **falling contact de-actuation**.

■ Resistive Load

An electrical load from devices such as heaters or lights. Resistive loads draw electrical current in one direction through the circuit. See also **Inductive Load**.

■ Rising Contact Actuation

The pressure or temperature at which the switch

changes electrical contact state (closed to open, or open to closed) when the pressure or temperature is rising. Also known as **set point**.

■ Sensing Element

The part of a switch or control that detects change in the medium, e.g., temperature or pressure. In Index pressure and temperature switches, the sensing element is a snap disc that moves to open or close the electrical contacts at the set and reset points. Index electronic switches and controls have thermistor sensing elements that then signal the electronic circuitry.

■ Set Point

The pressure or temperature at which the switch changes electrical contact state (closed to open, or open to closed) when the pressure or temperature is rising. Also known as **rising contact actuation**.

■ Sinking vs. Sourcing Circuit

Refers to the position of the switch in an electrical circuit with respect to power, load and ground.

Sinking: switches are wired between the load and ground.

Sourcing: switches are wired between power and the load.

Mechanical switches can generally be wired in both Sinking or Sourcing positions. Electronic switches and controls are designed as either Sinking (only) or Sourcing (only) devices.

■ Switch Mode

The setting of the switch contacts at ambient pressure or temperature. Index switches offer three modes: Normally Open, Normally Closed, and Common (both NO and NC).

NO (Normally Open): a switch that does not conduct electricity at ambient conditions (contacts open) until it reaches its set point, at which point the contacts close and electrical current flows.

NC (Normally Closed): a switch that conducts electricity at ambient conditions (contacts closed) until it reaches its set point, at which point the contacts open and the electrical current stops.

CO (Common): a switch with both Normally Closed and Normally Open outputs having the same set and reset points. In the case of mechanical switches, these are 3-terminal devices, also described as **single-pole, double-throw (SPDT)**.

■ Temperature Exposure Range

The range of temperatures within which switches can operate normally. Index switches operate between -40° F and 257° F (-40° C to 125° C).



How to read Index part descriptions

Index product descriptions use codes to shorten the descriptions. Housings and connectors are simplified to two-digit identification codes. Other words are abbreviated to allow thorough descriptions in a small space.

Examples

8037026P Temp Ctrl 195 NO H1 T1

8040178 Psw 034R Psi NC D H2 C3 A/C Low

Housing & Connector Key

Housings – Temperature		Connectors			Housings – Pressure	
H0	3/8" NPTF	T0	1/4" spade	Spade	H0	1/4" F Schrader
H1	1/2" NPTF	T1	8-32 screw	Threaded	H1	M10 F Schrader
H2	3/4-16 UNF	C2	Metripack 280	Tower w/socket	H2	M12 F Schrader
H3	3/4-16 UNF Long	C3	Metripack 280	Shroud w/pin	H3	1/4" NPTF External
H4	1/2" NPT Long	C4	Metripack 150	Tower w/socket	H4	1/8" NPTF External
H5	3/8" BSPT	C5	Metripack 150	Shroud w/pin	H5	1/8" NPTF Long
Hx	Other	C6	Weatherpack	Tower w/socket	H6	M12 x 1.5
		C7	Weatherpack	Shroud w/pin	H7	M14 x 1.5
		C8	Deutsch	Plug w/socket	H8	9/16" -18 UNF
		C9	Deutsch	Receptacle w/pin	H9	1/4" NPTF Internal
		Cw	None	Bare wire	Hx	Other
		Cx	Other	Other		

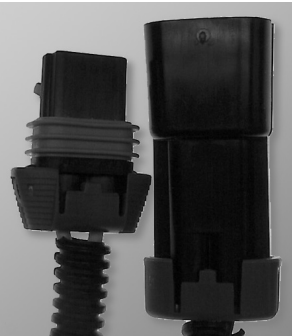
Ambient Condition Settings

NO	Normally Open	NC	Normally Closed	CO	Common (NO & NC)
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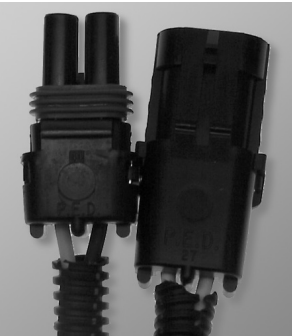
Product Feature Abbreviations

Pressure Switches		Temperature Switches	
Psw	Pressure switch	Temp Ctrl	Temperature control – heavy duty, wide current range
R	Nominal refers to rising set point	Temp Sw	Temperature switch – medium duty, current to 1 amp
F	Nominal refers to falling set point	TW	Electronic temperature switch
D	Diagnostic resistor (e.g. APAdS switches)	1fn	Single function electronic temperature switch
T	Time Delay	2fn	Dual function electronic temperature switch
R12	For R12 A/C System	Src	Sourcing – switch wired between power and load
R134a	For R134a A/C System	Snk	Sinking – switch wired between load and ground
APAdS	APAdS switches	Fan timer	Fan timing temperature switch (takes input from A/C pressure switch)
Air, Oil, Fuel	Multi-purpose – suitable for air, oil, fuel, water, transmission, hydraulic or brake fluid	PWM	Pulse width modulation

Connector Key



Metripack™ Tower (L) and Shroud (R)



Weatherpack™ Tower (L) and Shroud (R)



Deutsch Plug (L) and Receptacle (R)

Weatherpack and Metripack are tradenames of Delphi Corporation.

Deutsch connectors are made by Deutsch Industrial products division.



Air Conditioning Protection Products from Index help you keep your cool

Our air conditioning system protection modules go beyond monitoring conditions of low or high pressure and voltage. They stop damaging events, such as over-cycling, and coordinate functions within the system.

Designed to thrive in harsh under-hood environments, Index Air Conditioning Protection Products save money by extending the life of the A/C system and identifying problems before they become costly repairs.

ACX-10 Air Conditioning Life Extender

■ Detection and protection system

The ACX-10 detects rapid cycling before you even notice that your air conditioner isn't working properly. As your A/C system charge levels drop, clutch cycles increase. The ACX-10 limits A/C clutch cycles to four engagements per minute, reducing system wear and tear.

■ Pressure protection

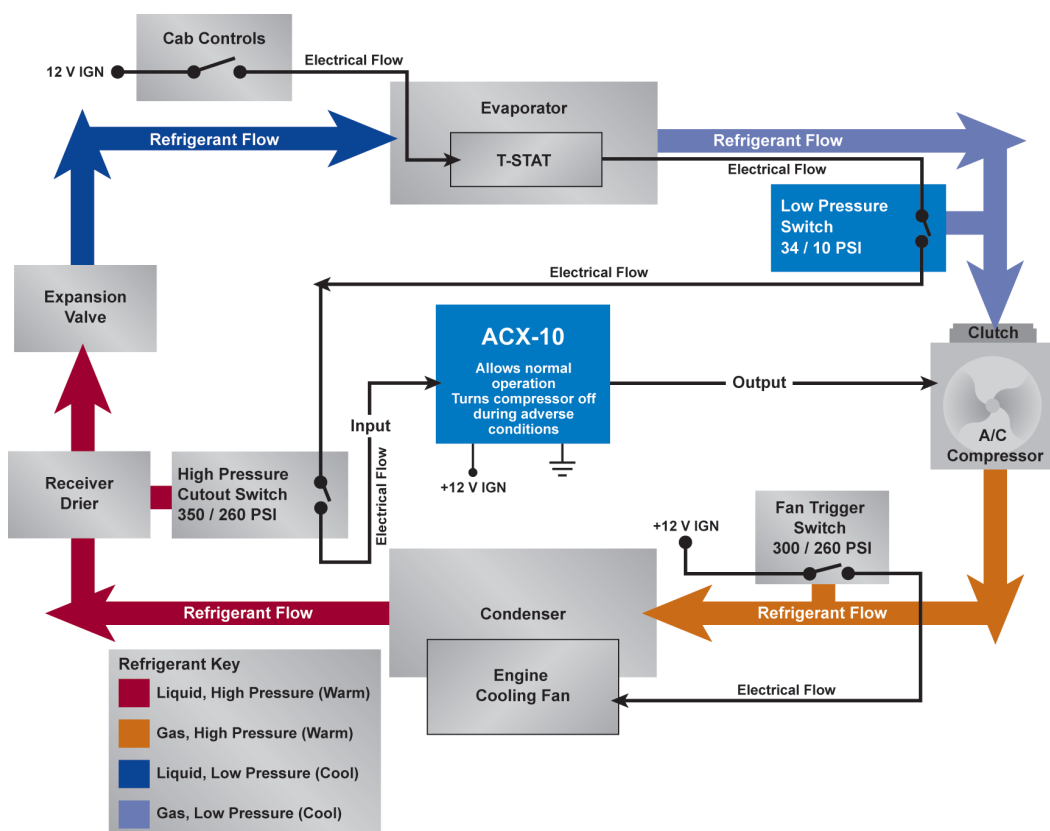
Improper system pressure can lead to rapid cycling. The ACX-10 limits system cycles to four engagements per minute, eliminating heat build-up.

■ Voltage protection

Over-voltage causes excessive current and heat in the clutch coil, which shortens its life. Worse yet, under-voltage can cause the clutch to slip and burn out. The ACX-10 detects poor voltage conditions and disengages the A/C clutch until the voltage returns to the normal, safe operating range.

■ Bonus! Starter motor protection

If the A/C is on during the vehicle's ignition cycle, the starter motor has to crank the compressor as well as the engine. The ACX-10 unburdens the starter motor and extends its life by delaying the A/C clutch engagement until 15 seconds after ignition.



INDEX P/N

8041188

See definitions and connector key on page 8.

Description

ACX-10

Notes

Weatherpack connector

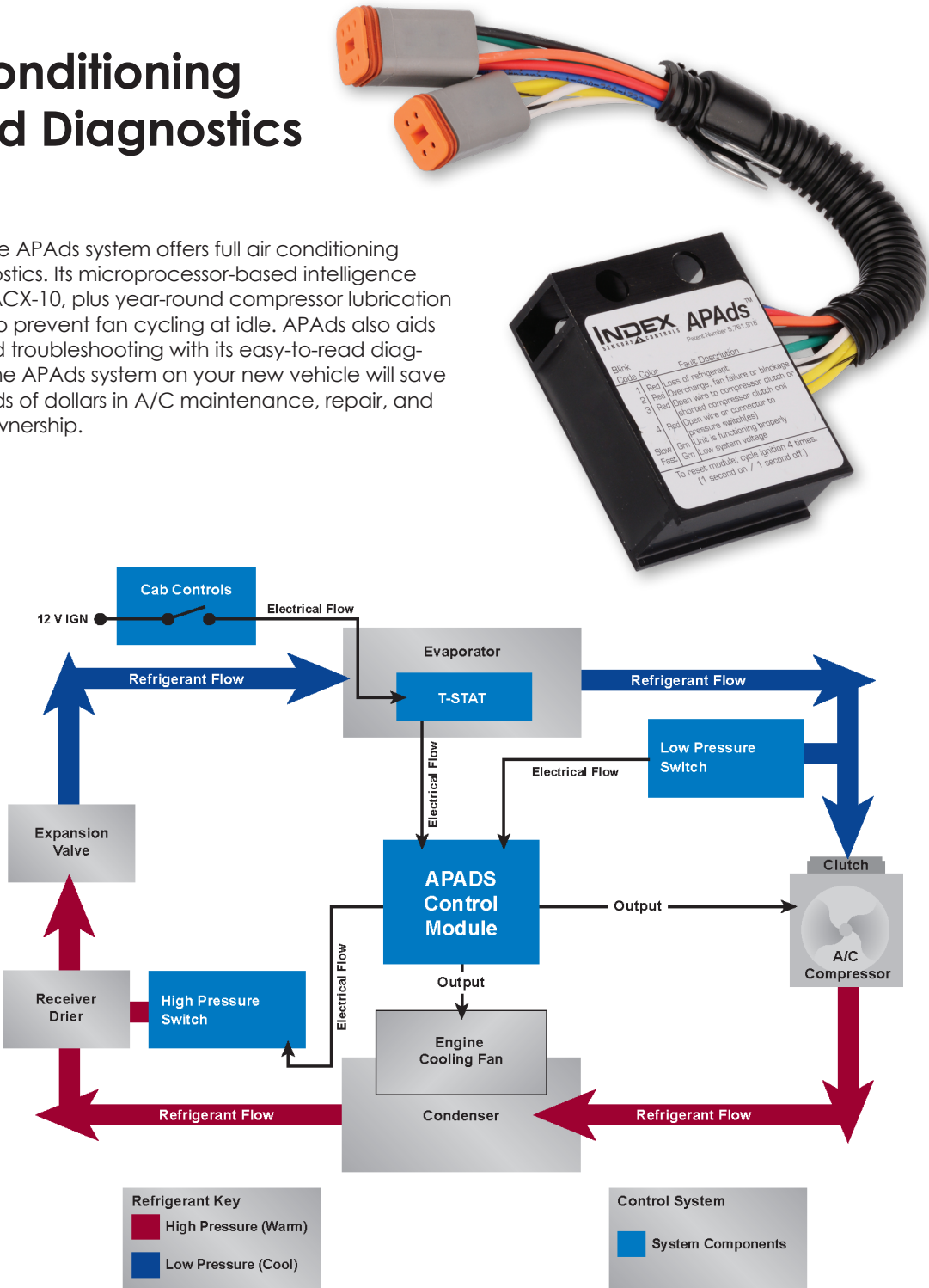
APAds® Air Conditioning Protection and Diagnostics System

Available as an OEM option, the APAds system offers full air conditioning control, protection, and diagnostics. Its microprocessor-based intelligence offers all the protection of the ACX-10, plus year-round compressor lubrication and cooling fan coordination to prevent fan cycling at idle. APAds also aids in preventive maintenance and troubleshooting with its easy-to-read diagnostic fault codes. Specifying the APAds system on your new vehicle will save you hundreds or even thousands of dollars in A/C maintenance, repair, and downtime over your years of ownership.

APAds offers multi-function control

- Prevents clutch damage from rapid cycling.
- Prevents clutch slippage from low voltage or over voltage.
- Improves A/C efficiency at idle.
- Eases troubleshooting with easy-to-interpret codes.
- Enhances preventive maintenance.
- Reduces expensive unscheduled repairs.
- Detects A/C problems even when A/C is turned off.

APAds is a registered trademark of Index Sensors & Controls, Inc. Patent number 5,761,918



OEM	New Truck Spec Option Code #	Notes	Module P/N (Service Parts)	Low Pressure Switch P/N (Service Parts)	High Pressure Switch P/N (Service Parts)
Mack	1739008		8042121	8040189	8040135
International	016-WJC016-WJH	For On/Off Fan Drives For Viscous Fan Drives	8042103 8042124	8040189 8040189	8040135 8040172
Kenworth	81040125		8042103	8040189	8040135
Peterbilt		Call Index for information			
Freightliner	702-009		8042103	8040189	8040135
Volvo	—		8042152	8040189	8040135

See definitions and connector key on page 8.



Heavy-Duty Pressure Switches that withstand harsh underhood conditions

Index's Heavy-Duty Pressure Switches are ideal for a wide range of heavy vehicle and equipment applications where durability and reliability are crucial.

Index switches are proven to withstand the shock and vibration of harsh underhood and off-road conditions.

Heavy-Duty Pressure Switches

- Exceptional vibration resistance.
- Specially designed for long life on heavy-duty equipment – up to 1 million cycles.
- Special time delay and diagnostic features available.
- Tight tolerances where high precision is needed.
- Pressure indication, interlock and control for engines, transmissions, hydraulics, fluid tanks, and similar industrial applications.
- Broad media compatibility: air, oil, water, coolant, hydraulic fluid, transmission fluid, and more.
- Custom-specifiable set and reset pressures.
- Numerous fittings and connectors available.
- Stable, drift-free calibration.

■ Built-in Vibration Resistance

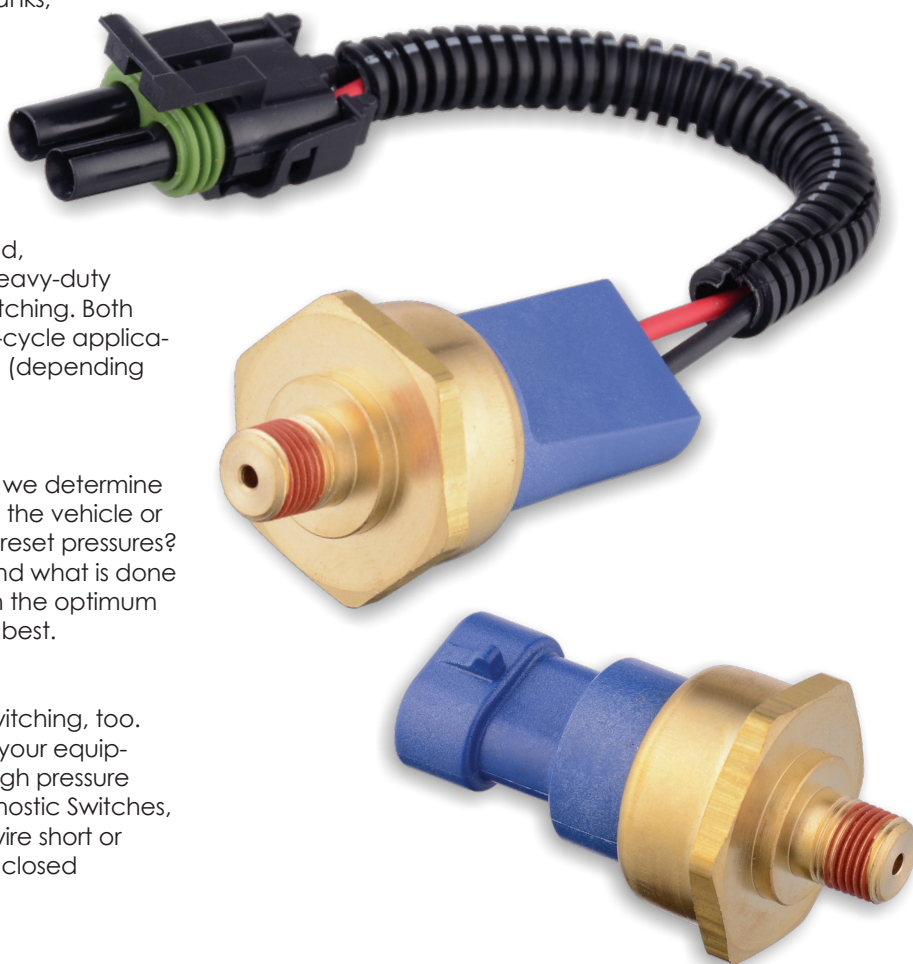
Index Pressure Switches put up a double line of defense against vibration with two snap-action elements. Under load, a crisp-response pressure disc triggers a heavy-duty micro switch, assuring clean electrical switching. Both elements are real workhorses in high duty-cycle applications, lasting up to 1 million cycles or more (depending on load/voltage conditions).

■ Custom Specs

By working closely with a variety of OEMs, we determine exactly how a pressure switch functions in the vehicle or machine. What are the optimum set and reset pressures? What receives the switch signal output, and what is done with that information? Then we can dial in the optimum specs to help the entire system work at its best.

■ Time-Delay & Diagnostics

You have more options than just on/off switching, too. Index Time-Delay Pressure Switches allow your equipment to “ignore” a normal, momentary high pressure spike or low pressure dip. With Index Diagnostic Switches, your control computer can distinguish a wire short or break from a normally-operating open or closed switch circuit.



Heavy-Duty Pressure Switches

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

Air Conditioning Pressure Switches: R134a Refrigerant Systems

High Pressure Cutout Switches – M10 female Schrader fitting

Set	Reset	Mode	Connector	Notes	INDEX P/N	Description	OEM	Replaces Index PN
300 psi	260	NC	Metripack Tower	for use with APADs system	8040135	Psw 300R psi NC D H1 C2 A/C high APADs	Volvo 3939317	8040147 8040177 8040279
300 psi	300	NC	Metripack Tower	for use with APADs system	8040177	Psw 300R psi NC D H1 C2 A/C high APADs	Navistar 2501256C1	
325 psi	275	NC	Weatherpack Tower	for use with APADs system	8040172	Psw 350R psi NC D H1 C6 A/C high APADs		
325 psi	275	NC	Weatherpack Tower	General Purpose	8040312	Psw 325R psi NC H1 C6 A/C high		
325 psi	275	NC	Metripack Tower	General Purpose - 30" wires	8040277	Psw 325R psi NC H1 C2 A/C high	Volvo 3948747	8040240
325 psi	275	NC	Metripack Tower	General Purpose - 6" wires	8040239	Psw 325R psi NC H1 C2 A/C high	Volvo 3948744 Mack 1MR3562	8040228 8040229
335 psi	245	NC	Metripack Tower	for use with APADs system	8040317	Psw 335R psi NC D H1 C2 A/C high APADs	Mack 1MR3594M	8040308

Fan Trigger Switches – M10 female Schrader fitting

Set	Reset	Mode	Connector	Notes	INDEX P/N	Description	OEM	Replaces Index PN
275 psi	235	NO	Weatherpack Tower	General Purpose	8040315	Psw 275R psi NO H1 C6 A/C fan		
275 psi	235	NC	Deutsch Receptacle	use with Index Fax Temp Timer	8040235	Psw 275R psi NC H1 C9 A/C fan	Volvo 3948748 Volvo 3949500	8040241 8040283 8040242
275 psi	235	NC	Weatherpack Tower	General Purpose	8040314	Psw 275R psi NC H1 C6 A/C fan		
300 psi	260	NC	Weatherpack Tower	General Purpose	8040164	Psw 300R psi NC H1 C6 A/C fan		

Low Pressure Cutout Switches – M12 female Schrader fitting

Set	Reset	Mode	Connector	Notes	INDEX P/N	Description	OEM	Replaces Index PN
34 psi	10	NO	Weatherpack Tower	General Purpose & w/ACX-10	8040321	Psw 034R psi NO H6 C7 A/C low		
34 psi	10	NO	Metripack Shroud	General Purpose	8040281	Psw 034R psi NO H2 C3 A/C low	Volvo 8025565 Mack 1MR3561	8040202 8040207
34 psi	8	NC	Metripack Shroud	for use with APADs system	8040189	Psw 034R psi NC D H2 C3 A/C low APADs	Volvo 3966805	8040161 8040136 8040178 8040170
34 psi	34	NC	Metripack Shroud	for use with APADs system	8040136	Psw 034R psi NC D H2 C3 A/C low Apads	Volvo 20437760 Navistar 1699310C1 Cat 232-8506	
34 psi	34	NC	Metripack Shroud	for use with APADs system	8040178	Psw 034R psi NC D H2 C3 A/C low Apads	Navistar 2501257C1 Volvo 3966805	
40 psi	32	NO	Metripack Tower	Note M10 F Schrader fitting	8040282	Psw 040R psi NO H1 C2 A/C low	Volvo 3948749	8040217
47 psi	25	NO	Weatherpack Shroud	for use with CCOT systems	8040318	Psw 047R psi NO H2 C7 A/C low CCOT		
47 psi	25	NC	Weatherpack Shroud	for APADs on CCOT systems	8040194	PSW 047R psi NC D H2 C7 A/C low APADs		

Air Conditioning Pressure Switches: R12 Refrigerant Systems

High Pressure Cutout Switches – 1/4" F Flare fitting

Set	Reset	Mode	Connector	Notes	INDEX P/N	Description	OEM	Replaces Index PN
310 psi	220	NC	Weatherpack Shroud	General Purpose	8040225	Psw 310R psi NC H0 C7 A/C high R12		
335 psi	245	NC	Metripack Tower	General Purpose	8040316	Psw 335R psi NC H0 C2 A/C high R12	Mack 1MR2463 Mack 1MR2451	8040227 8040226
350 psi	300	NC	Weatherpack Tower	for use with APADs system	8040171	Psw 350R psi NC D H0 C6 A/C high APADs		

Fan Trigger Switches – 1/4" F Flare fitting

Set	Reset	Mode	Connector	Notes	INDEX P/N	Description	OEM	Replaces Index PN
39 psi	39	NO	None – bare wires R12		8040201	Psw 039R psi NO H0 Cw A/C low R12	Kysor 2299010 Red Dot 71R6040	
250 psi	250	NC	Weatherpack Tower		8040230	Psw 250R psi NC H0 C6 A/C fan R12	Red Dot 71R6402	
275 psi	235	NC	Deutsch Receptacle	use with Index Fan Temp Timer	8040082	Psw 275R psi NC H0 C9 A/C fan R12		8040134
275 psi	235	NC	Weatherpack Shroud	General Purpose	8040243	Psw 275R psi NC H0 C7 A/C fan R12	Mack 1MR2456	8040236 8040230
275 psi	235	NC	Weatherpack Tower	General Purpose	8040231	Psw 275R psi NC H0 C6 A/C fan R12	Navistar 1622648C91	8040232
300 psi	260	NC	Weatherpack Tower	General Purpose	8040307	Psw 300R psi NC H0 C6 A/C fan R12		
300 psi	260	NO	Weatherpack Tower	General Purpose	8040313	Psw 300R psi NO H1 C6 A/C fan R12		
300 psi	300	NC	Deutsch	High Pressure A/C Switch	8040088	Psw 300R psi NC H1 C9 A/C fan R12	Red Dot RD5-10008	

Heavy-Duty Pressure Switches (continued)

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

Heavy-Duty Pressure Switches for Cummins® Applications

Thread Size 1/8" NPTF	1/4" NPTF	Connector	INDEX P/N	Cummins Equivalent
◆		Integrated	8040400	3408612 / 2897694
◆		Integrated	8040424	3408613 / 2897695
◆		Integrated	8040351	3408607 / 2897691
◆		Integrated	8040426	3408614 / 4307059
◆		Integrated	8040399	3408608 / 2897692
◆		Integrated	8040406	3408619 / 2897696
	◆	Integrated	8040410	3408609
	◆	Integrated	8040409	3408606

Multi-purpose Pressure Switches: Specified by Falling Reset Point

Nominal Pressure	Mode	Nominal Set Point (Rising Pressure)	Nominal Reset Point (Falling Pressure)	1/8" NPTF	1/4" NPTF	Connector	INDEX P/N	Description
006	NC	12	6	◆		Weatherpack Shroud	8040310	Psw 006F psi NC H4 C7 Air Oil Fuel
008	CO	16	8	◆		Weatherpack Tower	8040263	Psw 008F psi CO H4 C6 Air Oil Fuel
120	NC	150	120	◆		None – bare wires	8040245	Psw 120F psi NC H4 Cw Air Oil Fuel
006	CO	14	6		◆	Weatherpack Shroud	8040258	Psw 006F psi CO H3 C6 Air Oil Fuel
006	CO	15	6		◆	None – bare wires	8040265	Psw 006F psi CO H3 Cw Air Oil Fuel
006	CO	15	6	◆		None – bare wires	8040250	Psw 006F psi CO H4 Cw Air Oil Fuel
007	NO	15	7	◆		Other	8040218	Psw 007F psi NO H4 Cx Air Oil Fuel
010	CO	18	10		◆	Weatherpack Shroud	8040260	Psw 010F psi CO H3 C7 Air Oil Fuel
010	NC	18	10		◆	Weatherpack Shroud	8040223	Psw 010F psi NC H3 C7 Air Oil Fuel
010	NC	18	10	◆		Weatherpack Tower	8040212	Psw 010F psi NC H4 C6 Air Oil Fuel
010	NC	16	10	◆		Weatherpack Shroud	8040272	Psw 010F psi NC H4 C7 Air Oil Fuel
014	NC	14	6		◆	Metripack Tower	8040224	Psw 014F psi NC H3 C2 Air Oil Fuel
015	CO	25	15	◆		None – bare wire	8040251	PSW 015F psi CO H4 Cw Air Oil Fuel
015	CO	25	15	◆		Other	8040268	Psw 015F psi CO H4 Cx Air Oil Fuel
015	NC	25	15	◆		Weatherpack Tower	8040221	Psw 015F psi NC H4 C6 Air Oil Fuel
040	NC	55	40	◆		None – bare wires	8040246	Psw 040F psi NC H4 Cw Air Oil Fuel
060	CO	75	60	◆		None – bare wires	8040266	Psw 060F psi CO H4 Cw Air Oil Fuel
060	CO	75	60	◆		None – bare wires	8040252	Psw 060F psi CO H4 Cw Air Oil Fuel
065	NC	75	65		◆	Metripack Tower	8040237	Psw 065F psi NC H3 C2 Air Oil Fuel
070	CO	90	65	◆		Weatherpack Shroud	8040255	Psw 070F psi CO H4 C7 Air Oil Fuel
075	NC	85	75		◆	Metripack Tower	8040238	Psw 075F psi NC H3 C2 Air Oil Fuel

Multi-purpose Pressure Switches: Specified by Rising Set Point

Nominal Pressure	Mode	Nominal Set Point (Rising Pressure)	Nominal Reset Point (Falling Pressure)	1/8" NPTF	1/4" NPTF	Connector	INDEX P/N	Description
008	NO	8	4	◆		Ring Terminals	8040311	Psw 008R psi NO H4 Cx Air Oil Fuel
009	CO	9	7		◆	Weatherpack Shroud	8040262	Psw 009R psi CO H3 C7 Air Oil Fuel
014	CO	14	8		◆	Weatherpack Shroud	8040280	Psw 014R psi CO H3 C7 Air Oil Fuel
014	CO	14	8	◆		Weatherpack Shroud	8040257	Psw 014R psi CO H4 C7 Air Oil Fuel
035	CO	35	25		◆	Weatherpack Shroud	8040254	Psw 035R psi CO H3 C7 Air Oil Fuel
060	NO	60	50	◆		Metripack Tower	8040215	Psw 060R psi NO H4 C2 Air Oil Fuel
060	NO	60	50	◆		Weatherpack Shroud	8040216	Psw 060R psi NO H4 C7 Air Oil Fuel
100	CO	100	85	◆		Weatherpack Shroud	8040256	Psw 100R psi CO H4 C7 Air Oil Fuel

All pressures in PSI. See definitions and connector key on page 8.

Index Electronic Temperature Switches are built to endure tough conditions

Ideal for engines, transmissions, fuel, and fan control, Index Temperature Switches are designed to give you precise temperature control, indication, warning, alarm, and monitoring for thousands of heavy-duty applications.

Index Temperature Switches are built to withstand tough conditions and remain highly accurate in extreme environments. With no moving parts to wear out, they keep operating through whatever situation they face.



Solid State/PWM Electronic Temperature Switches

- Offers long life and high precision for tough applications.
- One or two independently specifiable temperatures.
- Combine and coordinate two functions in one device.
- Quick response time.
- Solid state design assures years of accurate switching.
- Reverse polarity protection.

■ Versatile performance

- Accurate to $\pm 1.5^{\circ}\text{F}$.
- Functions from -20° to 230°F (-29° to 110°C).
- Fully custom set and reset points.
- Operates in a variety of fluids.
- Numerous fittings and connectors available.
- Customizable PWM outputs available.
- Gauge driving available.

■ Available in either single- or dual-function designs

Two outputs from one location assures coordination of functions through one device. Dual-function maximizes the use of limited installation ports.

- Single-function: shutter control, fan control, overtemp warning/engine shutdown, low transmission temperature (-10° to 32°F / -23° to 0°C), and fuel temperature.
- Dual-function provides two functions with a single port: overtemp warning/engine shutdown, fan control/shutter control.



Air-sensing Fan Drivers with special fast-response tip

Function 1		Function 2		Sourcing	Sinking	Connector	INDEX P/N	Description	OEM	OEM PN
Set Point	Mode	Set Point	Mode							
150	NC				◆	Deutsch Receptacle	8036154	TE Air Snk 150 NC H1 C9 Intake Air Temp Sw		
150	NC			◆		Weatherpack Shroud	8036186	TE Air Src 150 Nc H1 C7 Intake Air Temp Sw		
190	NO			◆		Deutsch Plug	8036098	TE Air Src 190 NO H1 C8 Intake Air Temp Sw		

Electronic Temperature Switches

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

Single- and Dual-Function Temperature Switches

Function 1 Set Point	Mode	Function 2 Set Point	Mode	Sourcing	Sinking	Connector	INDEX P/N	Description	OEM	OEM PN
200	NC				◆	Metripack Shroud	8036023	TE 1fn Snk 200 NC H1 C3 Nav 1516893C91	International	1516893C91
200	NO				◆	Weatherpack Tower	8036205	TE 1fn Snk 200 NO H1 C6		
200	NO				◆	Weatherpack Shroud	8036206	TE 1fn Snk 200 NO H1 C7		
060	NC			◆		Metripack Tower	8036128	TE 1fn Src 060 NC H1 C4		
080	NC			◆		Metripack Shroud	8036043	TE 1fn Src 080 NC H1 C3		
150	NC			◆		Weatherpack Shroud	8036157	TE 1fn Src 150 NC H1 C6 Nav 1621011C91	International	1621011C91
150	NO			◆		Weatherpack Shroud	8036152	TE 1fn Src 150 NO H1 C7		
185	NC			◆		Metripack Shroud	8036200	TE 1fn Src 185 NC H1 C3		
185	NC			◆		Weatherpack Shroud	8036052	TE 1fn Src 185 NC H1 C7 Nav 1621007C92	International	1621007C92
200	CO			◆		Screw Terminals	8036178	TE 1fn Src 200 CO H0 Cx		
200	NC			◆		Weatherpack Shroud	8036061	TE 1fn Src 200 NC H1 C7		
205	NC			◆		Metripack Shroud	8036167	TE 1fn Src 205 NC H1 C3 Volvo 3942759	Volvo	3942759
205	NC			◆		Weatherpack Shroud	8036056	TE 1fn Src 205 NC H1 C7		
205	NO			◆		Weatherpack Shroud	8036058	TE 1fn Src 205 NO H1 C7 Nav 2016585C91	International	2016585C91
160	NO	200	NO		◆	Metripack Tower	8036201	TE 2fn Snk 160 NO 200 NO H1 C4		
172	NC	187	NC		◆	Metripack Tower	8036217	TE 2fn Snk 172 NC 187 NC H1 C4		
172	NC	187	NO		◆	Metripack Tower	8036216	TE 2fn Snk 172 NC 187 NO H1 C4		
195	NC	210	NC		◆	Metripack Tower	8036158	TE 2fn Snk 195 NC 210 NC H1 C4		
200	NO	215	NO		◆	Weatherpack Shroud	8036198	TE 2fn Snk 200 NO 215 NO H1 C7		
215	NO	220	NC		◆	None – bare wire	8036213	TE 2fn Snk 215 NO 220 NC H1 Cw		
185	NC	195	NC	◆		Weatherpack (2) Shroud	8036143	TE 2fn Src 185 NC 195 NC Nav 1621005C91	International	1621005C91
185	NC	195	NC	◆		None/Other	8036142	TE 2fn Src 185 NC 195 NC Nav 1985130C91	International	1985130C91

Cooling Fan Timer Temperature Control Switches

Controls engine fan when needed to cool the engine or reduce air conditioning system pressure. Contains a fan control temperature switch plus a time circuit that takes input from an Index A/C fan trigger switch. When needed by the A/C system, the fan stays on for 3 minutes to greatly reduce system pressure and prevent rapid fan cycling.

Function 1 Set Point	Mode	Function 2 Set Point	Mode	Sourcing	Sinking	Connector	INDEX P/N	Description	OEM	OEM PN
180	NC			◆		Weatherpack Shroud	8036076	TE fan timer 180 NC H1 C7 Nav 1688070C91	International	1688070C91
195	NC			◆		Deutsch Receptacle	8036165	TE fan timer 195 NC H1 C9 Volvo 3940177	Volvo	3940177
195	NO			◆		Deutsch Plug	8036100	TE fan timer 195 NO H1 C8		
200	NC			◆		Deutsch Receptacle	8036083	TE fan timer 200 NC Ford F3HT-10B843-SA	Ford	F3HT-10B843-SA
200	NC			◆		Weatherpack Shroud	8036078	TE fan timer 200 NC H1 C7		
200	NC			◆		Weatherpack Shroud	8036077	TE fan timer 200 NC H1 C7 Nav 2011857C91	International	2011857C91
200	NO			◆		Weatherpack Tower	8036070	TE fan timer 200 NO H1 C6		
200	NO			◆		Weatherpack Tower	8036071	TE fan timer 200 NO H1 C6 Nav 2027243C1	International	2027243C1
200	NO			◆		Deutsch Plug	8036101	TE fan timer 200 NO H1 C8		
205	NC			◆		Weatherpack Shroud	8036080	TE fan timer 205 NC H1 C7		
205	NC			◆		Weatherpack Shroud	8036081	TE fan timer 205 NC H1 C7 Mack 1MR6546M	Mack	1MR6546M
205	NC			◆		Weatherpack Shroud	8036079	TE fan timer 205 NC H1 C7 Nav 1622647C91	International	1622647C91
205	NC			◆		Deutsch Receptacle	8036087	TE fan timer 205 NC H1 C9		
205	NC			◆		Deutsch Receptacle	8036169	TE fan timer 205 NC H1 C9 Volvo 3942809	Volvo	3942809
205	NC			◆		Deutsch Receptacle	8036168	TE fan timer 205 NC H1 C9 Volvo 3942917	Volvo	3942917
205	NO			◆		Weatherpack Tower	8036073	TE fan timer 205 NO H1 C6		
205	NO			◆		Deutsch Plug	8036103	TE fan timer 205 NO H1 C8		
205	NO			◆		Deutsch Plug	8036094	TE fan timer 205 NO H1 C8 air sw trigger		
209	NO			◆		Deutsch Plug	8036105	TE fan timer 208.5 NO H1 C8		

All temperatures in degrees fahrenheit. Switches listed have 1/2" NPT thread fittings. See definitions and connector key on page 8.

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.

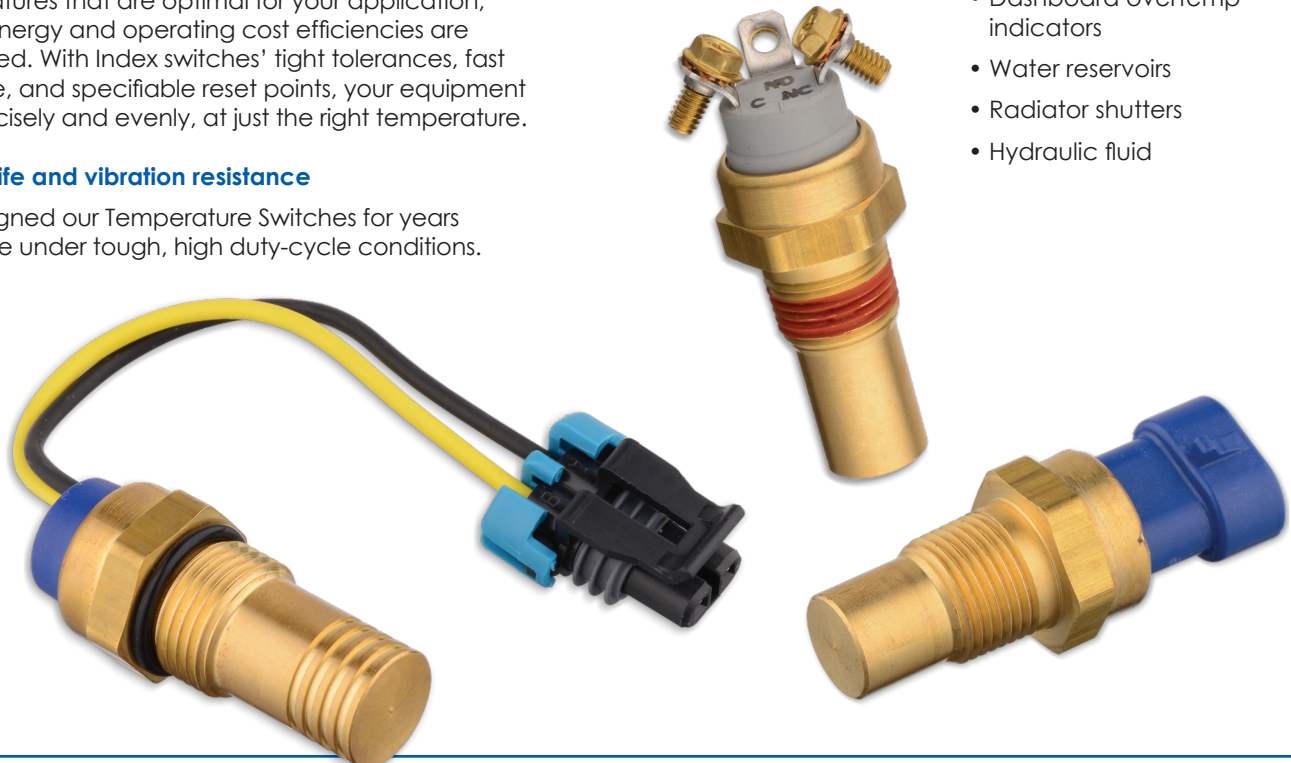
■ Long life and vibration resistance

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



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						
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						
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. See definitions and connector key on page 8.

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

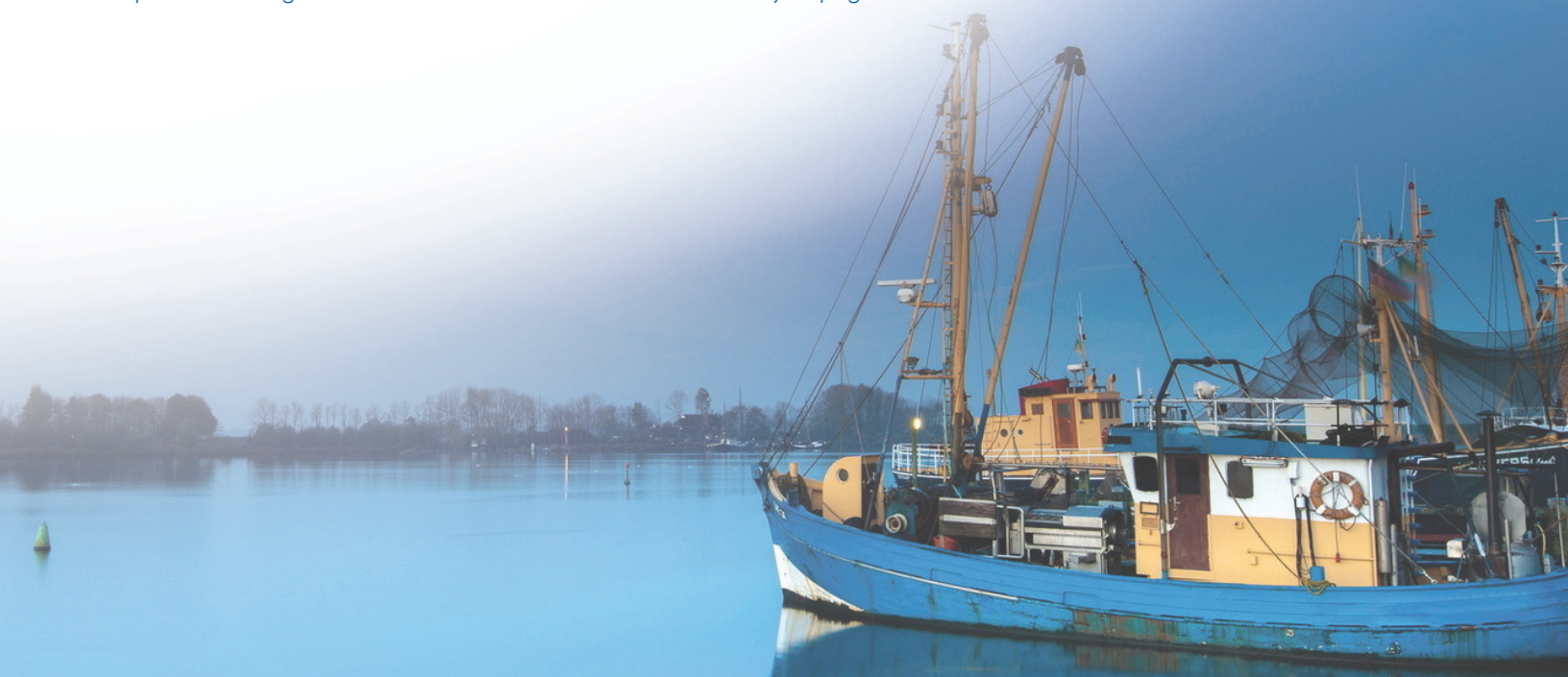
Temp °F	Mode	Terminals or Connector			INDEX P/N	Direct Replacement Medallion P/N	Old Kysor P/N	Direct Replacement Horton P/Ns	Can also replace these Medallion P/Ns*	Other Equivalents
		8-32 Screw	Weatherpack Shroud	Metripack Shroud						
180	NO	◆			8037183	1002-05825-28				
195	NO	◆			8037082		993610	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. See definitions and connector key on page 8.



Temperature Control Switches (continued)

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

Heavy-Duty Switches for Cummins® Applications

Housing 1/2" NPTF	Connector	INDEX P/N	Cummins Equivalent
◆	Integrated	8037318	3408624
◆	Integrated	8037445	3408625
◆	Integrated	8037319	3408626
◆	Integrated	8037320	3408627
◆	Integrated	8037374	3408629
◆	Integrated	8037321	3408631
◆	Integrated	8037375	3408632
◆	Integrated	8037372	3408634
◆	Integrated	8037377	3408635
◆	Integrated	8037380	3408636
◆	Integrated	8037322	3408639
◆	Integrated	8037316	3408643
◆	Integrated	8037317	3408645
◆	Integrated	8037429	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	◆		8039076			
180	NO	◆		8039057	1002-05511-28	1002-07690-28, 1002-07324-28	
190	NO	◆		8039058	1002-05511-30	1002-07690-30, 1002-07324-30	
195	NO	◆		8039064	1002-05511-31	1002-07690-31, 1002-07324-31	
200	NO	◆		8039065	1002-05511-32	1002-07690-32, 1002-07324-32	
205	NO	◆		8039054	1002-05511-33	1002-07690-33, 1002-07324-33	
205	NO	◆		8039034	1002-05811-34		
210	NO	◆		8039014	1002-05511-34	1002-07690-34, 1002-07324-34	
215	NO	◆		8039019	1002-05511-35	1002-07690-35, 1002-07324-35	
220	NO	◆		8039023	1002-05511-36	1002-07690-36, 1002-07324-36	
225	NO	◆		8039025	1002-05511-37	1002-07690-37, 1002-07324-37	
230	NO	◆		8039026	1002-05511-38	1002-07690-38, 1002-07324-38	
250	NO	◆		8039066	1002-05511-42	1002-07690-42, 1002-07324-42	
260	NO		◆	8039078			
300	NO	◆		8039029	1002-05511-52	1002-07690-52, 1002-07324-52	
185	NC	◆		8039050			Thomas 61230658
190	NC	◆		8039010	1002-05768-30	1002-07474-30, 1002-07449-30	
195	NC	◆		8039056	1002-05768-31	1002-07474-31, 1002-07449-31	
200	NC	◆		8039067	1002-05768-32	1002-07474-32, 1002-07449-32	
205	NC	◆		8039068	1002-05768-33	1002-07474-33, 1002-07449-33	
210	NC	◆		8039012	1002-05768-34	1002-07474-34, 1002-07449-34	
215	NC	◆		8039017	1002-05768-35	1002-07474-35, 1002-07449-35	
220	NC	◆		8039021	1002-05768-36	1002-07474-36, 1002-07449-36	

* Replace Metripack connector on harness with ring terminals.

All temperatures in degrees fahrenheit. See definitions and connector key on page 8.

Temperature Control Switches (continued)

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

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	





Improve the reliability and operation of your vehicle with Liquid Probes from Index

An engine leak can lead to costly repairs, rebuilds, or replacements. Maintain your fluid levels with a Liquid Probe from Index.

- Coolant level probes can increase the overall longevity of your vehicle engine.
- Water-In-Fuel probes keep your engine running smoothly without costly repairs or downtime.

Coolant Level Probe

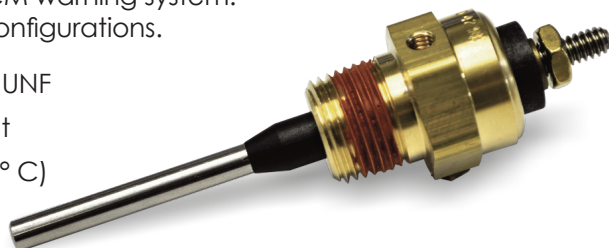
Index heavy-duty coolant probes sense when the coolant level drops below the measuring point and provides input to a dashboard or ECM warning system. Probes are available in one-pin (case ground) and two-pin configurations.

Standard fittings: 1/4" NPT, 3/8" NPT, and 9/16" UNF

Terminal styles: Single threaded post with nut

Operating temperature range: -40° F to 257° F (-40° C to 125° C)

Thread Size	Terminal Type	INDEX P/N	Direct Replacement Medallion P/N	Kysor P/N
3/8"	Single	8034100	5022-33990-01	5022-01187-01
1/4"	Single	8034101	5022-33670-03	5022-01185-01
1/4"	Deutsch	8034109		



Water-in-Fuel Probe

Index Water-in-Fuel probes ensure the engine will not falter due to improper liquids entering the engine. The driver is notified when water has collected in the fuel filter housing and can remove the water before it causes problems.

- Brass housing or stainless steel
- Designed for A/C or low duty cycle plumb D/C current
- Single pin or dual pin
- Internal resistor available on two pin
- Designed for low voltage applications
- Tested to ensure long life in coolant

Thread Size	Terminal Type	INDEX P/N	Direct Replacement Medallion P/N	Kysor P/N
1/4"	Deutsch	8034107		



See definitions and connector key on page 8.

If you need something different, just ask...

Index has a large variety of configurations with our standard products, but sometimes that isn't enough. If you require something different to suit your needs, just ask.

We can review your requirements, ranging from a simple "tweak" of a current product to a fully custom design.

Call (800) 726-1737 to speak with a Sales Engineer or email: sales@indexsensors.com



We deliver solutions that make sense

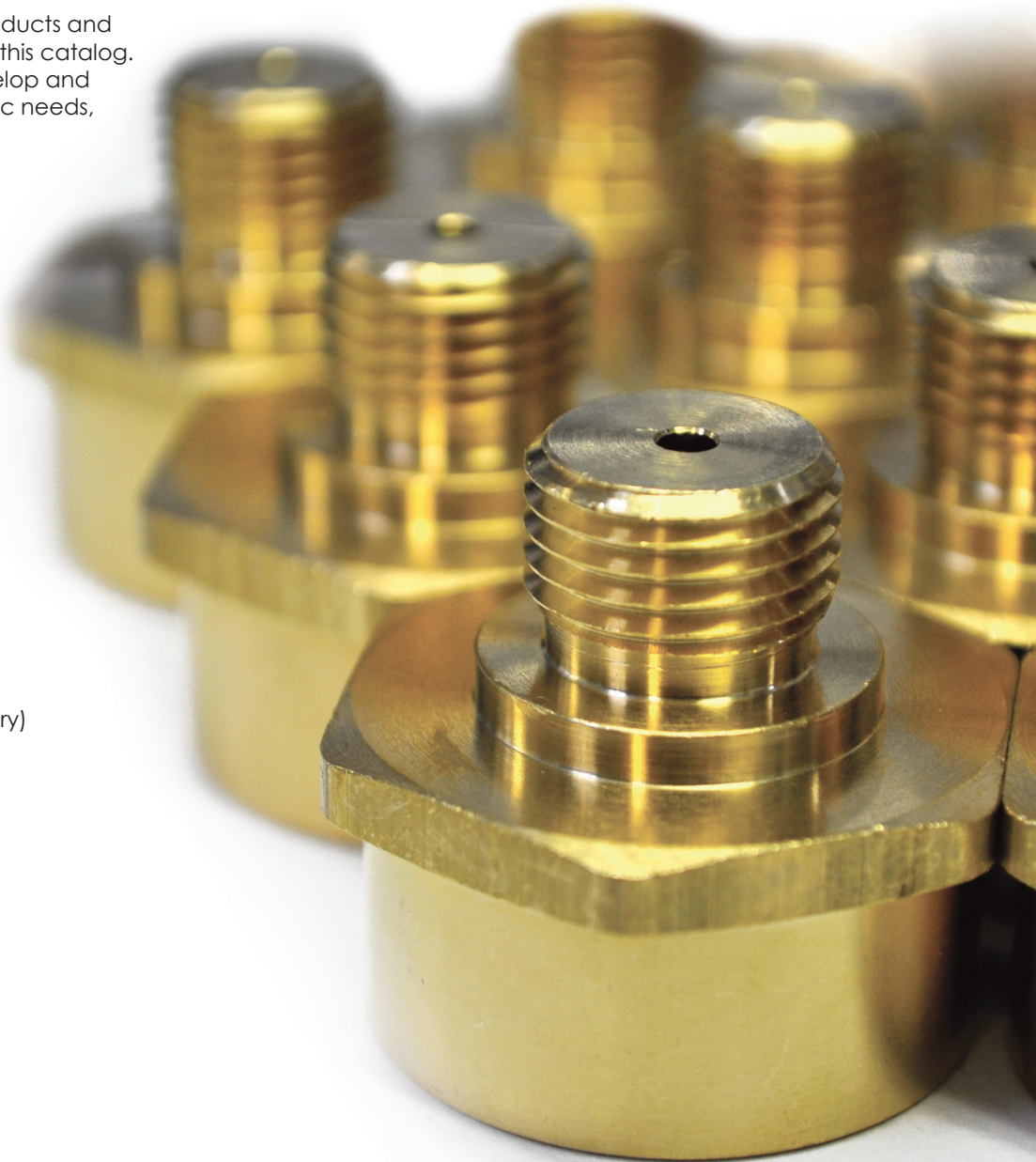
Index offers custom-specification of products and custom-designed products not listed in this catalog. We are happy to work with you to develop and manufacture products to fit your specific needs, all within a short lead time.

Our capabilities include:

- Multi-function control systems
- Electronic controls
- Mechanical and electrical temperature sensors and switches
- Mechanical and electrical pressure sensors and switches
- Liquid probes
- Position and level sensors
- Continuous flow manufacturing process
- Automated testing equipment
- ALAG bar-coded packaging
- Just-in-time delivery

Engineering Capabilities:

- Product design (custom and proprietary)
- Applications engineering
- System analysis
- Control algorithm design
- Hardware design
- Software development
- User interface design
- Mechanical design
- Design testing
- Reliability engineering
- CPK Analysis
- Test engineering



Level Sensors

Temperature Sensors

Position Sensors

Pressure Sensors

Index supplies a large assortment of popular sensors for a variety of heavy-duty aftermarket applications.

Our experienced technicians function-test every sensor prior to shipment to ensure high reliability and long life.

In addition, every sensor we sell carries our industry-leading warranty.

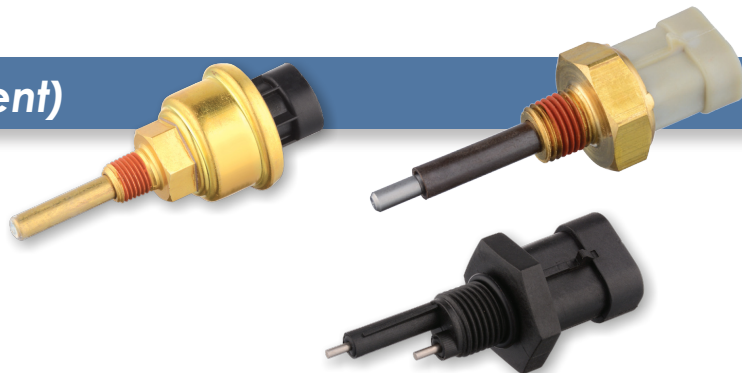
See pages 24-25 for a partial listing of direct replacement sensors that Index supplies to the aftermarket. Many other sensors are available – contact us toll free at (800) 726-1737 or email: customersupport@indexsensors.com

If you are looking for a custom-designed sensor or for a specific application, contact us.



Level Sensors (Direct Replacement)

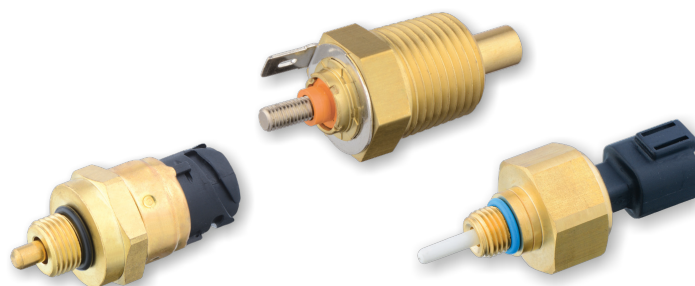
OEM	OEM P/N	INDEX P/N
Cummins	4903489	8060006
Detroit Diesel	23520380	8060004
Freightliner	06-62384-002	8060005
Mack	25174715	8060007



Temperature Sensors (Direct Replacement)

OEM	OEM P/N	INDEX P/N
Caterpillar	1022240	8062005
Cummins	3085185	8062006
Cummins	3408346	8062053
Cummins	3865312	8062024
Cummins	3865346	8062054
Cummins	4921473	8062009
Cummins	4921475	8062003
Detroit Diesel	23514708	8062075
Detroit Diesel	23515250	8062030
Detroit Diesel	23515251	8062031
Detroit Diesel	23518092	8062035
Freightliner	147584	8062072

Freightliner	2254800000	8062007
Kenworth	K379-12	8062073
Kenworth	Q21-1002	8062076
Navistar	1675751C1	8062040
Peterbilt	144455	8062004



ABS / Position Sensors (Direct Replacement)

OEM	OEM P/N	INDEX P/N
Bendix	801541	8065000
Bendix	801542	8065085
Bendix	801545	8065070
Bendix	801546	8065077
Bendix	801547	8065071
Bendix	801548	8065076
Bendix	801549	8065079
Bendix	801550	8065083
Bendix	801551	8065074
Bendix	801552	8065084
Bendix	801553	8065075
Caterpillar	2016615	8065009
Caterpillar	2454630	8065010
Cummins	2872277	8065025
Cummins	4921599	8065007
Cummins	4984223	8065003
Detroit Diesel	8929387	8065005
Detroit Diesel	8929388	8065008
Haldex	919801	8065066
Haldex	919802	8065067
Haldex	919803	8065068
Haldex	919804	8065069
Mack	20706327	8065011
Mack	25166488	8065012
Meritor	R955329	8065013

Meritor	R955335	8065001
Meritor	R955336	8065073
Meritor	R955338	8065082
Meritor	R955341	8065081
Meritor	R955342	8065002
Meritor	R955608	8065087
Meritor	S4410321840	8065059
Meritor	S4410323810	8065052
Meritor	S4497130300	8065063
Meritor	S4497130500	8065065
Navistar	1835985C92	8065024
Navistar	1876735C91	8065029
Navistar	1876736C91	8065030
Navistar	1885812C91	8065006
Volvo	21508269	8060003



Pressure Sensors (Direct Replacement)

OEM	OEM P/N	INDEX P/N
Caterpillar	1946724	8061003
Caterpillar	1946725	8061004
Caterpillar	2244536	8061006
Caterpillar	2482169	8061007
Caterpillar	2746718	8061008
Caterpillar	2746719	8061009
Caterpillar	2842728	8061010
Cummins	2871960	8061022
Cummins	2897331	8061057
Cummins	3084521	8061019
Cummins	3330141	8061029
Cummins	4076493	8061015
Cummins	4902720	8061060
Cummins	4921487	8061026
Cummins	4921493	8061040
Cummins	4921495	8061024
Cummins	4921499	8061073
Cummins	4921501	8061020
Cummins	4921511	8061087
Cummins	4921517	8061011
Cummins	4928593	8061077
Cummins	4928594	8061023
Detroit Diesel	23528418	8061088
Detroit Diesel	23532797	8061047
Freightliner	2482165	8061018
Freightliner	23527829	8061021
Navistar	1807369C2	8061027
Navistar	1830669C92	8061025
Navistar	1839415C91	8061028
Navistar	1840078C1	8061012
Navistar	1846481C92	8061013
Navistar	1850351C1	8061014
Navistar	3C3Z9F838EA	8061076
Navistar	5C3Z9J460B	8061016
Volvo	1077574	8061030



Index supplies many other direct replacement sensors to the aftermarket. For more information, call (800) 726-1737 or email: customersupport@indexsensors.com

Limited Product Warranty

Index warrants all of its products to be free from defects in material and workmanship under normal use and service. All parts are non-returnable, however in the event a part proves to be defective in material or workmanship within the Warranty period covering the specific product to which the Warranty applies as specified below, will be repaired or replaced, at Index's option, with a new or functionally operative part.

General Conditions

INDEX's liability under this Limited Warranty shall be limited to repairing or replacing at its own factory or through an authorized service distributor or dealer, material which is determined by INDEX to have been defective in manufacture and upon which a claim has been made by the original purchaser or user to Index (or an authorized distributor or dealer) within the Warranty period. All returns must have an RMA number issued by INDEX clearly marked on the package upon receipt or package will be returned to sender at their expense. Claims under this Limited Warranty will be honored only if the product is returned within 90 days of the date that the part was determined to be defective. INDEX specifically assumes no responsibility for labor charges unless prior written authorization has been granted by INDEX before the labor has been performed. Approved return of parts or products will be on a prepaid transportation charge basis only and non-defective products will be returned collect. Claims under this Limited Warranty will be honored only upon return of product and INDEX's determination that the claim is covered by this Limited Warranty and Index shall incur no obligation under this Limited Warranty prior to such determination. This Limited Warranty does not apply to any device or component which has been (i) altered or repaired, except by INDEX or its authorized representatives ; (ii) subject to misuses, exceeding design specification temperature and or pressure limits, negligence, or accident, including, without limitation, use and operation of such machinery or equipment while any parts are loose, broken, out of order, or damaged by the elements, or (iii) used for a purpose for which it was not designed or used in conjunction with other products not approved for use by INDEX, or (iv) rendered inoperative due to miswiring or due to broken wires, or related connectors. Parts replaced under this Limited Warranty are warranted only through the remainder of the original Limited Warranty. Any and all claims for Warranty service must include such information as Index designates, and shall include specifically the part number and date code of each unit (if appropriate) prior to issuing an RMA number.

Recovery Payment Terms (Parts, Labor, Freight)

Parts: Parts returned and verified as failed, by Index, are reimbursed at sales price

Labor: Labor is reimbursed by applying a standard shop rate of \$65/hour times ½ hour/unit

Freight: Index reimburses actual freight costs on parts returned and verified as failed

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF PURPOSE AND ALL OTHER OBLIGATIONS OR LIABILITIES OF INDEX, INCLUDING ANY TORT LIABILITY FOR NEGLIGENT DESIGN OR MANUFACTURE OF THE PRODUCT, OR OTHERWISE.

THIS WARRANTY DOES NOT COVER CONSEQUENTIAL DAMAGES. IN NO EVENT WILL INDEX BE LIABLE TO BUYER FOR LOSS OF PROFITS, LOSS OF USE, OR DAMAGES OF ANY KIND BASED UPON A CLAIM FOR BREACH OF WARRANTY. INDEX EXPRESSLY DENIES ANY WARRANTY, EXPRESSED OR IMPLIED OF FITNESS FOR PURPOSE OR OF MERCHANTABILITY WHERE THE SPECIFIED DESIGN OF THE PRODUCT IS ESTABLISHED BY THE PURCHASER OR INDEX DOES NOT HAVE INTIMATE KNOWLEDGE OF THE INTENDED PURPOSE AND APPLICATION.

INDEX SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, AS THOSE TERMS ARE DEFINED IN THE UNIFORM COMMERCIAL CODE. THE FOREGOING SHALL CONSTITUTE THE SOLE AND EXCLUSIVE LIABILITY OF INDEX IN CONNECTION WITH ITS PRODUCTS.

Warranty Periods

Unless otherwise documented in writing by INDEX, products are warranted for a period of one (1) year from the date of installation. If the date of installation or resale cannot be documented, the date of installation will be assumed to be thirty days after the manufacturing date coded on the product.

4046009 Rev. H



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