

Heavy-Duty Pressure Switches 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

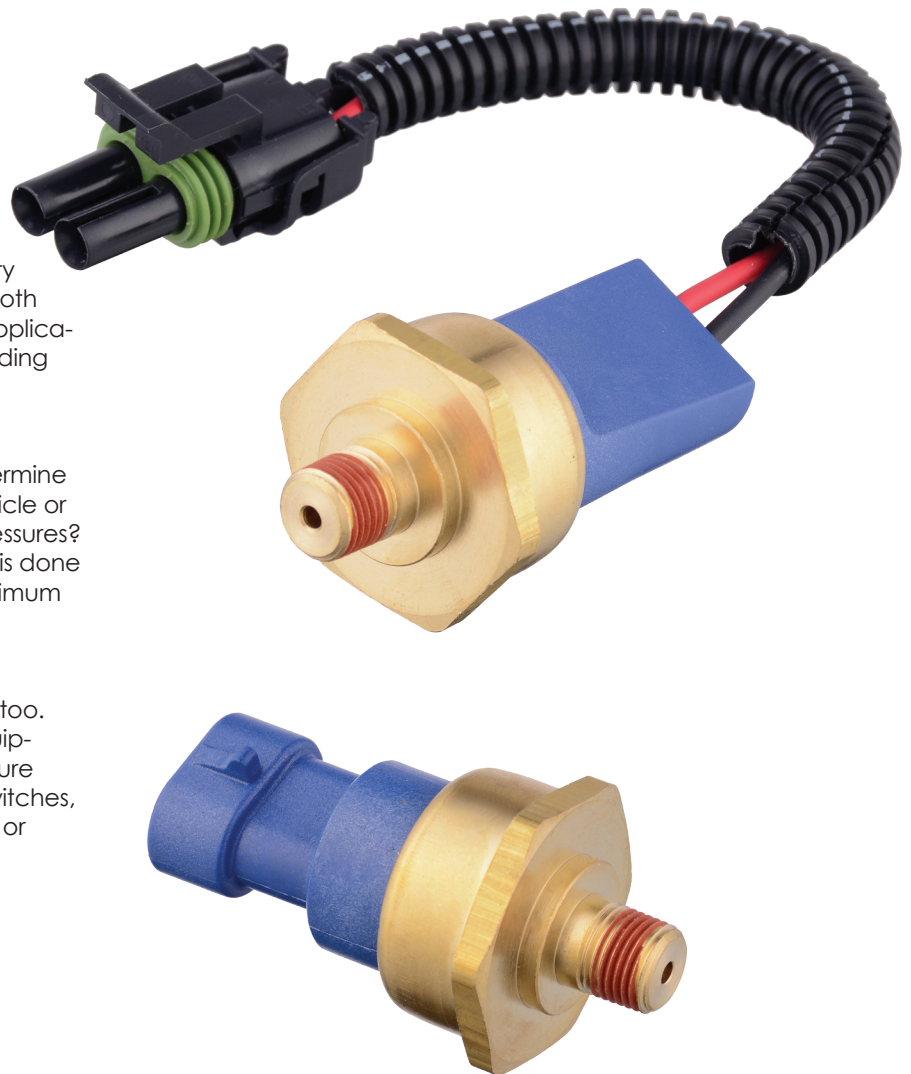
Index Pressure Switches put up a double line of defense against vibration with two snap-action elements. Under load, a crisp-response pressure disc triggers a heavy-duty micro switch, assuring clean electrical switching. Both elements are real workhorses in high duty-cycle applications, lasting up to 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.



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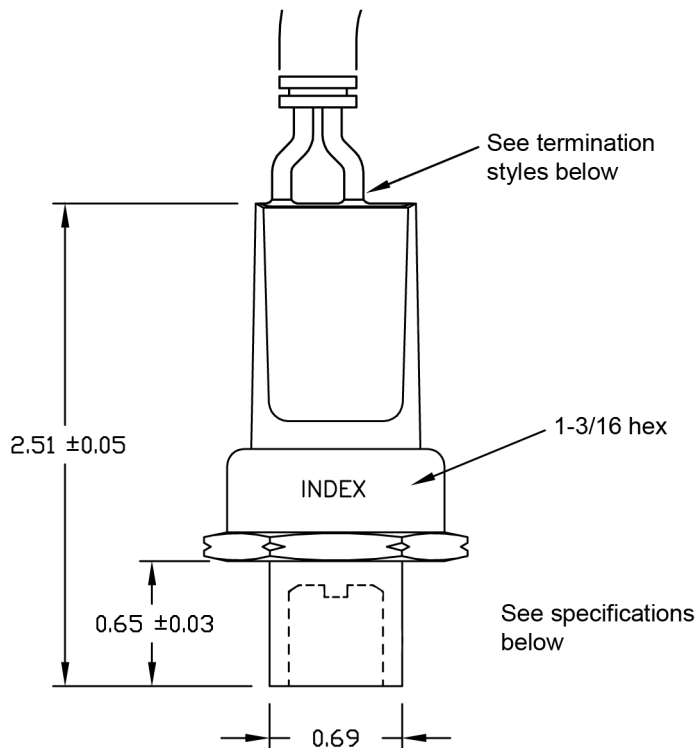
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Heavy-Duty Pressure Switches

Index Heavy-Duty Pressure Switches are ideal for a variety of industrial vehicle and equipment uses, engine and transmission oil, fuel, air-conditioning systems, and custom applications.

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

Port Configurations	1/8" and 1/4" NPT, M14, and M12 male threads 1/4" female flare, M10, and M12 female threads (Schrader)	
Environmental Protection	Complete environmental seal Switch breathes through the wire & connector	
Termination Styles	Weatherpack, Metri-Pack, ITT Cannon, Deutsch sealed connectors, bare leads, or customer-requested termination	
Setpoint Accuracy	Under 11 psi: to ± 2 psi 11-50 psi: to ± 3 psi 50-100 psi: ± 5 psi 100-275 psi: ± 7 psi Over 275 psi: ± 10 psi	Under 76 kPa: to ± 14 kPa 76-345 kPa: to ± 21 kPa 345-690 kPa: to ± 34 kPa 690-1900 kPa: to ± 48 kPa over 1900 kPa: to ± 70 kPa
Endurance	Up to 1 million cycles, depending upon pressure range	
Electrical Switch Mode	Available in NO (Normally Open), NC (Normally Closed), and NO/NC (3-wire) configurations	
Proof / Burst Pressure	650 / 2500 psi	4,480 , 17,240 kPa
Current Rating	10 mA to 7 amps resistive, 4 amps inductive; 12/24 VDC, 250 VAC	
Pressure Ranges	6 psi-450 psi	40-3,100 kPa
Maximum Exposure Temperature	257° F	125° C

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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	

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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.

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