



INDEX SENSORS & CONTROLS

# PRODUCT CATALOG



[www.indexsensors.com](http://www.indexsensors.com)

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# OEM & AFTERMARKET CHANNELS

## 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 or lawn care, marine, defense, power generation, and assorted industrial applications.



## AFTERMARKET INDEPENDENT DISTRIBUTORS

Our products are carried by independent heavy-duty parts distributors all over the world. Contact us to locate a distributor near you.



## OEM HEAVY VEHICLE DEALER

Index parts are carried by many OEM dealers and distributors. Contact your local OEM vehicle dealer to purchase genuine index products.





# ABOUT US

## WHO WE ARE:

Since 1976, we have 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.

Index's products and custom solutions play an important role "behind the scenes", improving basic machine operation, as well as benefit equipment users with easier operation, diagnostics, and lower maintenance costs.

Index is certified **ISO 9001**. Our ISO certification guarantees that every product meets strict quality requirements.

## WHAT WE DO:

- CAN Control Modules
- Electronic Controls
- Temperature Switches
- Pressure Switches
- Temperature Sensors
- Pressure Sensors
- Level Sensors & Probes
- Position & ABS Sensors
- Custom Harnessing

## HOW WE CAN HELP:

### Customer & Technical Support

Customer support is available to assist you with your order, answer any questions about orders in process, the availability of new or existing products, as well as any technical questions you may have. Reach our customer support representatives via email at: [customersupport@indexsensors.com](mailto:customersupport@indexsensors.com).

### Sales Support

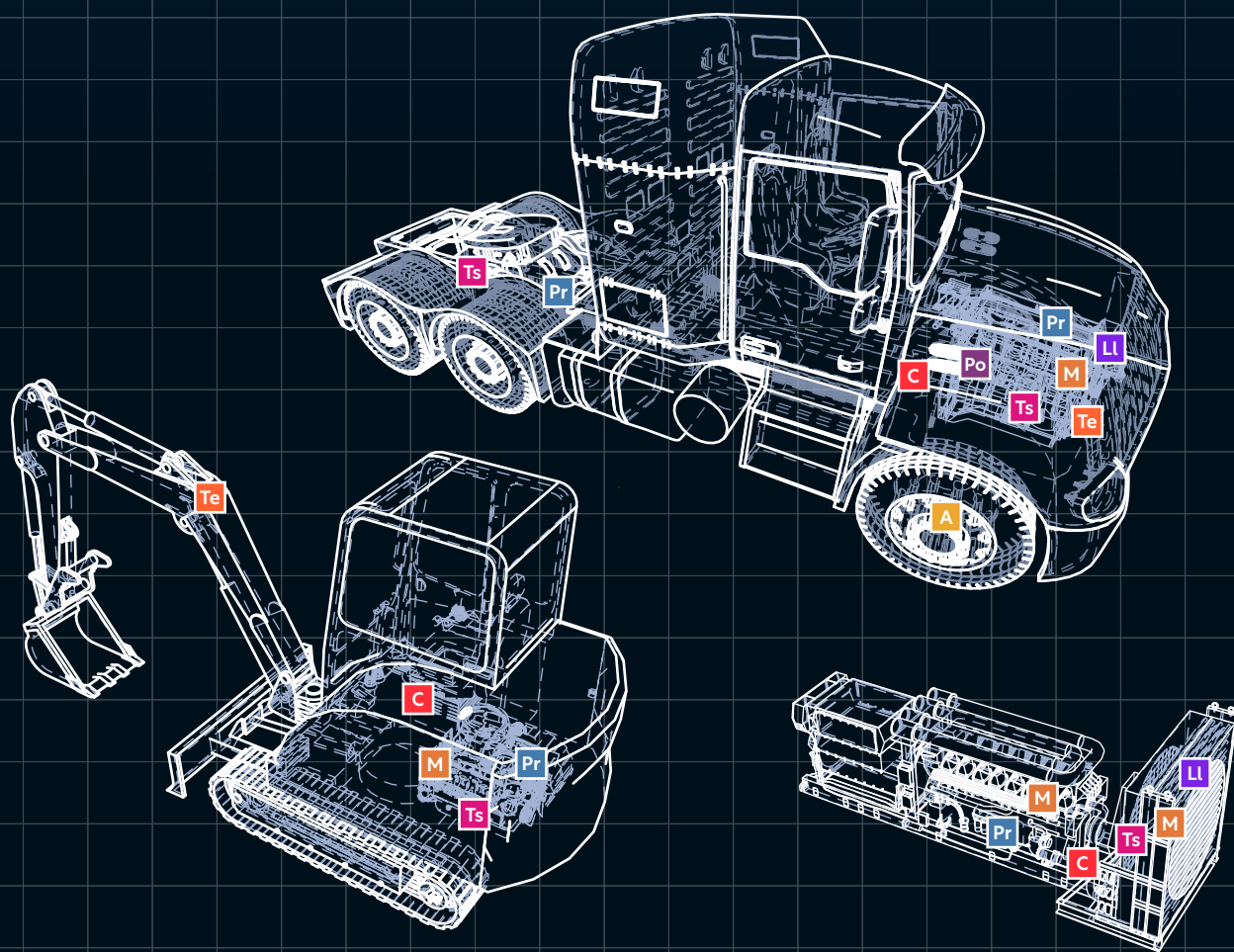
At Index, we are always looking for ways we can help enhance your products and your business. Whether you are looking for rugged and reliable products, more intelligent components or custom-engineered controls, we're ready to help. If you are interested in learning more about Index products, email us at: [sales@indexsensors.com](mailto:sales@indexsensors.com).

Want to talk? Call us at: **1 (800) 726-1737**.



Washington, USA

# PRODUCT FAMILIES



## **Pr** PRESSURE SENSORS

- Oil pressure
- Air pressure
- Fuel pressure
- Hydraulic pressure

## **Ts** TEMPERATURE SENSORS

- Transmission temperature
- Battery temperature
- Oil temperature
- Coolant temperature
- Brake temperature
- PWM (Pulse Width Modulation)
- Hydraulic temperature

## **M** MECHANICAL PRESSURE AND TEMPERATURE SWITCHES

- Air conditioning pressure
- Transmission pressure
- Air pressure
- Hydraulic pressure
- Brake fluid pressure
- Oil pressure
- Engine temperature
- Hydraulic temperature

## **Li** LIQUID LEVEL

- Coolant level
- Water in fuel
- Low coolant
- Water in fuel

## **Po** POSITION SENSORS

- Crankshaft position
- Camshaft position

## **C** EMBEDDED CONTROL MODULES

- A/C protection modules
- Inclinometers
- Multi-sensor CAN modules

## **Te** ELECTRONIC TEMPERATURE SWITCHES

- Air-sensing fan driver
- Dual-function
- Cooling fan timer

## **A** ABS SENSORS

- Wheel speed



## PRESSURE SENSORS

Index provides pressure sensors for both vehicle and industrial applications measuring fuel, oil, air, hydraulic, and refrigerant.



Operating pressures available up to 15,000psi.

High precision & temperature-stable, available in absolute pressure, gauge pressure, and differential pressure.

Numerous thread sizing, connector options, and wire lengths available.

OEM	OEM #	INDEX #
Caterpillar	194-6722	8061097
Caterpillar	194-6724	8061003
Caterpillar	194-6725	8061004
Caterpillar	224-4535	8061005
Caterpillar	224-4536	8061006
Caterpillar	248-2165	8061018
Caterpillar	248-2169	8061007
Caterpillar	274-6718	8061008
Caterpillar	274-6719	8061009
Caterpillar	284-2728	8061010
Caterpillar	498-4975	8061046
Cummins	2871960	8061022
Cummins	2897331	8061057
Cummins	3084521	8061019
Cummins	3330141	8061029
Cummins	4076493	8061015
Cummins	4902720	8061060
Cummins	4921485	8061063
Cummins	4921487	8061026
Cummins	4921493	8061040
Cummins	4921495	8061024
Cummins	4921497	8061100
Cummins	4921499	8061073
Cummins	4921501	8061020
Cummins	4921503	8061108
Cummins	4921505	8061117
Cummins	4921505	8061117
Cummins	4921511	8061087
Cummins	4921517	8061011
Cummins	4921519	8061045
Cummins	4928593	8061077
Cummins	4928594	8061023
Detroit Diesel	23522322	8061064

OEM	OEM #	INDEX #
Detroit Diesel	23527828	8061101
Detroit Diesel	23527829	8061021
Detroit Diesel	23528418	8061088
Detroit Diesel	23531964	8061103
Detroit Diesel	23532797	8061047
Detroit Diesel	23535663	8061102
Kenworth	1826277	8061113
Navistar	1807329C92	8061106
Navistar	1807369C2	8061027
Navistar	1830669C92	8061025
Navistar	1839415C91	8061028
Navistar	1840078C1	8061012
Navistar	1845428C92	8061104
Navistar	1845536C91	8061114
Navistar	1846480C2	8061107
Navistar	1846480C2	8061107
Navistar	1846481C92	8061013
Navistar	1850351C1	8061014
Navistar	1850353C2	8061105
Navistar	3546241C1	8061098
Navistar	3C3Z9F838EA	8061076
Navistar	5C3Z9J460B	8061016
Volvo	1077574	8061030
Volvo	1673078	8061112
Volvo	3172522	8061110
Volvo	20706889	8061111
Volvo	20796744	8065115
Volvo	20796744	8061115
Volvo	20829689	8061116
Volvo	20829689	8061116
Volvo	21634017	8061054
Volvo	21634021	8061055
Volvo	21634024	8061109



## POSITION & ABS SENSORS

Robust sealing and glass-filled nylon construction protect internal components to ensure long life in harsh environments.



### Position Sensors

Rugged non-contact position sensors available for many heavy-duty applications.

### ABS Sensors

Upsized cable for increased abrasion resistance. Multiple cable extension options available.

OEM	OEM #	INDEX #
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
Bendix	801563	8065078
Caterpillar	201-6615	8065009
Caterpillar	245-4630	8065010
Cummins	2872277	8065025
Cummins	2872279	8065026
Cummins	3970084	8065103
Cummins	4326596	8065019
Cummins	4890190	8065099
Cummins	4921597	8065027
Cummins	4921599	8065007
Cummins	4984223	8065003
Detroit Diesel	8929387	8065005
Detroit Diesel	8929388	8065008
Detroit Diesel	23527338	8065021
Haldex	919801	8065066
Haldex	919802	8065067
Haldex	919803	8065068
Haldex	919804	8065069
Haldex	919806	8065064
Isuzu	8-97306113-1	8065093

OEM	OEM #	INDEX #
Isuzu	8-97329775-1	8065092
Mack	20706327	8065011
Mack	25166488	8065012
Mack	7660-990K	8065101
Mack	K3454/K4148	8065095
Mack	K3455/K4151	8065096
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	1807339C92	8065004
Navistar	1828345C91	8065094
Navistar	1835985C92	8065024
Navistar	1876735C91	8065029
Navistar	1876736C91	8065030
Navistar	1885812C91	8065006
Navistar	2503117C1	8065098
Navistar	3528003C1	8065097
Navistar	556915C91	8065088
Stewart Warner	990R	8065102
Volvo	21508269	8060003
Volvo	22194741	8065104
Wabco	1889797	8065105





# TEMPERATURE SENSORS

## TEMPERATURE SENSORS

Designed for durability and stability, Index heavy-duty temperature sensors provide consistent and accurate thermal measurement across the toughest operating conditions.



### EGT Sensors

Manufactured to provide accurate exhaust temperature monitoring and rapid response.

### Pressure-Temperature Sensors

Dual-function sensing in a single port.



### TEMPERATURE SENSORS

OEM	OEM #	INDEX #
Caterpillar	102-2240	8062005
Caterpillar	264-4297	8062083
Cummins	2897334	8062085
Cummins	3015238	8062089
Cummins	3085185	8062006
Cummins	3408346	8062053
Cummins	3613547	8062090
Cummins	3865312	8062024
Cummins	3865346	8062054
Cummins	4088712	8062092
Cummins	4088832	8062026
Cummins	4897224	8062094
Cummins	4921473	8062009
Cummins	4921475	8062003
Cummins	4921477	8062084
Cummins	4921479	8062098
Cummins	4954905	8062055
Cummins	5698455	8062087
Detroit Diesel	23514708	8062075
Detroit Diesel	23515250	8062030
Detroit Diesel	23515251	8062031
Detroit Diesel	23518092	8062035

OEM	OEM #	INDEX #
Detroit Diesel	23527674	8062057
Detroit Diesel	23527830	8062033
Detroit Diesel	23527831	8062034
Freightliner	2254800000	8062007
Freightliner	06-23464-000	8062091
Freightliner	VCC83000036	8062077
Kenworth	144455	8062004
Kenworth	144728	8062073
Kenworth	147584	8062072
Kenworth	Q21-1002	8062076
Navistar	51274210190	8062039
Navistar	1675751C1	8062040
Navistar	1836537C91	8062095
Navistar	1889995C91	8062041
Navistar	3803848C1	8062086
Volvo	20524936	8062102
Volvo	20527242	8062100
Volvo	20576617	8062103
Volvo	20927970	8062099
Volvo	22422785	8062101
Volvo	23527813	8062093

### EGT SENSORS

OEM	OEM #	INDEX #
Detroit Diesel	A6804910337	8062107
Detroit Diesel	A6805401317	8062108
Detroit Diesel	A6805401417	8062109
Detroit Diesel	A6805401517	8062110
Detroit Diesel	A6805401617	8062111
Detroit Diesel	A6805401717	8062112
Detroit Diesel	A6805401717	8062112
Detroit Diesel	A6805401817	8062113
Detroit Diesel	A6805402017	8062114
Detroit Diesel	A6805402117	8062115

OEM	OEM #	INDEX #
Detroit Diesel	A6805402217	8062116
Detroit Diesel	A6805402317	8062117
Detroit Diesel	A6805402417	8062118
Detroit Diesel	A6805402617	8062119
Navistar	2593753C92	8062120
Navistar	2593754C91	8062121
Navistar	2593756C91	8062122
Volvo	20451990	8062104
Volvo	21164792	8062074
Volvo	21412472	8062106





## LIQUID LEVEL SENSORS

Index offers capacitive level, resistive level, and water in fuel sensors. These stand-alone devices provide a digital signal reflecting coolant level or water in fuel status.



Available in a 3- or 4-pin Metri-Pack® connector or with an optional adapter harness.

### Resistive Liquid Level Sensors

Designed to offer high sensitivity in conductive fluids.



### Capacitive Liquid Level Sensors

Covered probe ensures no contact between sensing element and liquid; typically used in non-conductive fluids.



### Water in Fuel Sensors

A resistive level sensor optimized for detecting water in oil or diesel fuel.

OEM	OEM #	INDEX #
Caterpillar	430-9449	8041207
Caterpillar	430-9454	8041206
Cummins	2872768	8034111
Cummins	3612521	8034112
Cummins	4383932	8034113
Detroit Diesel	23503510	8060025
Detroit Diesel	23520380	8060004
Detroit Diesel	23522855	8060009

OEM	OEM #	INDEX #
Detroit Diesel	25174715	8060007
Freightliner	06-62384-00	8060005
Gems	242985	8041204
Kenworth	N9267001	8060021
Navistar	1673785C92	8034114
Navistar	3572012C1	8060012
Volvo	21399626	8060013
Volvo	21711711	8060024

## PASSIVE LEVEL PROBES / WIF

Passive devices for either coolant level or water in fuel alerting. Requires an external module to function.



### Low Coolant Level Probes

Eliminate engine failure caused by faulty coolant level signals.



### Water in Fuel Probes

Safeguards engine performance by detecting and signalling the presence of water in the fuel system.

### LOW COOLANT LEVEL PROBES

THREAD	CONNECTOR	EQUIVALENTS	INDEX #
3/8" NPT	Screw Terminal	Medallion 5022-33990-01 Kysor 5022-01187-01	8034100
1/4" NPT	Screw Terminal	Medallion 5022-33670-03 Kysor 5022-01185-01	8034101
1/4" NPT	Deutsch		8034109

### WATER IN FUEL

THREAD	CONNECTOR	INDEX #
1/4" NPT	Deutsch	8034107

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



## PRESSURE SWITCHES

Mechanical high-reliability single-point on/off control device; commonly used for fuel, oil, or air pressure in vehicle and industrial applications.



Tight environmental seal perfect for heavy-duty applications.

Full range configurations available.  
(set points, connectors, or thread sizes)

### MULTI-PURPOSE PRESSURE SWITCHES: SPECIFIED BY RISING SET POINT

SET	RESET	MODE	THREAD	CONNECTOR	INDEX #
4	2	NO	1/8" NPT	Metri-Pack	8040490
5	2	NC	1/8" NPT	Metri-Pack	8040470
5	2	NO	1/8" NPT	Metri-Pack	8040471
7	4	NO	1/8" NPT	Metri-Pack	8040491
8	4	NO	1/8" NPT	Ring Terminals	8040311
9	7	CO	1/4" NPT	Weather-Pack	8040262
10	5	NC	1/8" NPT	Metri-Pack	8040472
10	5	NO	1/8" NPT	Metri-Pack	8040473
14	8	CO	1/4" NPT	Weather-Pack	8040280
14	8	CO	1/8" NPT	Weather-Pack	8040257
20	10	NC	1/8" NPT	Metri-Pack	8040474
20	10	NO	1/8" NPT	Metri-Pack	8040475
35	25	CO	1/4" NPT	Weather-Pack	8040254
35	25	NC	1/8" NPT	Metri-Pack	8040476
35	25	NO	1/8" NPT	Metri-Pack	8040477
60	50	NO	1/8" NPT	Metri-Pack	8040215
60	50	NO	1/8" NPT	Weather-Pack	8040216
60	50	NC	1/8" NPT	Metri-Pack	8040478
60	50	NO	1/8" NPT	Metri-Pack	8040479
85	75	NC	1/8" NPT	Metri-Pack	8040480
85	75	NO	1/8" NPT	Metri-Pack	8040481
100	85	CO	1/8" NPT	Weather-Pack	8040256
115	90	NC	1/8" NPT	Metri-Pack	8040482
115	90	NO	1/8" NPT	Metri-Pack	8040483
135	105	NC	1/8" NPT	Metri-Pack	8040484
135	105	NO	1/8" NPT	Metri-Pack	8040485

### MULTI-PURPOSE PRESSURE SWITCHES: SPECIFIED BY FALLING RESET POINT

SET	RESET	MODE	THREAD	CONNECTOR	INDEX #
12	6	NC	1/8" NPT	Weather-Pack	8040310
15	6	CO	1/8" NPT	Flying Lead	8040265
15	6	CO	1/8" NPT	Flying Lead	8040250
14	6	NC	1/4" NPT	Metri-Pack	8040224
14	6	CO	1/4" NPT	Weather-Pack	8040258
15	7	NO	1/8" NPT	Tab Connector	8040218
16	8	CO	1/8" NPT	Weather-Pack	8040263
16	10	NC	1/8" NPT	Weather-Pack	8040272
18	10	NC	1/8" NPT	Weather-Pack	8040212
18	10	CO	1/4" NPT	Weather-Pack	8040260
18	10	NC	1/4" NPT	Weather-Pack	8040223
25	15	CO	1/8" NPT	Flying Leads	8040251
25	15	CO	1/8" NPT	Tab Connector	8040268
25	15	NC	1/8" NPT	Weather-Pack	8040221
55	40	NC	1/8" NPT	Flying Leads	8040246
75	60	CO	1/8" NPT	Flying Leads	8040266
75	60	CO	1/8" NPT	Flying Leads	8040252
90	65	CO	1/8" NPT	Weather-Pack	8040255
75	65	NC	1/4" NPT	Metri-Pack	8040237
85	75	NC	1/4" NPT	Metri-Pack	8040238
150	120	NC	1/8" NPT	Flying Leads	8040245



## A/C Pressure Switches: R12 Refrigerant Systems

### HIGH PRESSURE CUTOUT SWITCHES

SET	RESET	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
310	220	NC	1/4" Flare	Weather-Pack		8040225
335	245	NC	1/4" Flare	Metri-Pack	Mack 1MR2463 / 1MR2451	8040316
350	300	NC	1/4" Flare	Weather-Pack		8040171

### FAN TRIGGER SWITCHES

SET	RESET	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
39	39	NO	1/4" Flare	Flying Leads	Kysor 2299010   Red Dot 71R6040	8040201
250	250	NC	1/4" Flare	Weather-Pack	Red Dot 71R6402	8040230
275	235	NC	1/4" Flare	Deutsch		8040082
275	235	NC	1/4" Flare	Weather-Pack	Mack 1MR2456	8040243
275	235	NC	1/4" Flare	Weather-Pack	Navistar 1622648C91	8040231
300	260	NC	1/4" Flare	Weather-Pack		8040307
300	260	NO	1/4" Flare	Weather-Pack		8040313
300	300	NC	1/4" Flare	Deutsch	Red Dot RD5-10008	8040088

## A/C Pressure Switches: R134a Refrigerant Systems

### HIGH PRESSURE CUTOUT SWITCHES

SET	RESET	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
300	260	NC	M10 F Schrader	Metri-Pack	Volvo 3939317	8040135
300	300	NC	M10 F Schrader	Metri-Pack	Navistar 2501256C1	8040177
325	275	NC	M10 F Schrader	Weather-Pack		8040172
325	275	NC	M10 F Schrader	Weather-Pack		8040312
325	275	NC	M10 F Schrader	Metri-Pack	Volvo 3948747	8040277
325	275	NC	M10 F Schrader	Metri-Pack	Volvo 3948744   Mack 1MR3562	8040239
335	245	NC	M10 F Schrader	Metri-Pack	Mack 1MR3594M	8040317

### FAN TRIGGER SWITCHES

SET	RESET	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
275	235	NO	M10 F Schrader	Weather-Pack		8040315
275	235	NC	M10 F Schrader	Deutsch	Volvo 3948748/3949500	8040235
275	235	NC	M10 F Schrader	Weather-Pack		8040314
300	260	NC	M10 F Schrader	Weather-Pack		8040164

### LOW PRESSURE CUTOUT SWITCHES

SET	RESET	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
34	10	NO	M12 F Schrader	Weather-Pack		8040135
34	10	NO	M12 F Schrader	Metri-Pack	Volvo 8025565   Mack 1MR3561	8040177
34	8	NC	M12 F Schrader	Metri-Pack	Volvo 3966805	8040172
34	34	NC	M12 F Schrader	Metri-Pack	Volvo 20437760   Navistar 1699310C1   Cat 232-8506	8040312
34	34	NC	M12 F Schrader	Metri-Pack	Navistar 2501257C1   Volvo 3966805	8040277
40	32	NO	M12 F Schrader	Metri-Pack	Volvo 3948749	8040239
47	25	NO	M12 F Schrader	Weather-Pack		8040317
47	25	NC	M12 F Schrader	Weather-Pack		

## Heavy-Duty Pressure Switches for Cummins® Applications

SET	RESET	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
14	6	CO	1/8" NPT	Metri-Pack	Cummins 3408612 / 2897694	8040400
16	12	CO	1/8" NPT	Metri-Pack	Cummins 3408607 / 2897691	8040351
18	10	CO	1/8" NPT	Metri-Pack	Cummins 3408613 / 2897695	8040424
21	18	CO	1/8" NPT	Metri-Pack	Cummins 3408608 / 897692	8040399
30	20	CO	1/8" NPT	Metri-Pack	Cummins 3408614 / 4307059	8040426
35	25	CO	1/8" NPT	Metri-Pack	Cummins 3408619 / 2897696	8040406
35	25	CO	1/4" NPT	Metri-Pack	Cummins 3408609	8040410
53	23	CO	1/4" NPT	Metri-Pack	Cummins 3408606	8040409

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

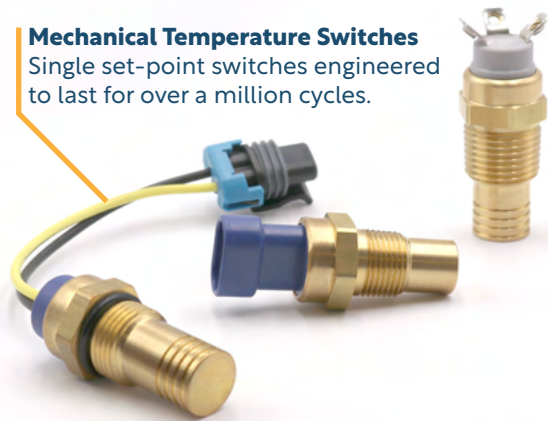


# TEMPERATURE SWITCHES

Index offers customizable mechanical and electronic temperature switches with a variety of set and reset-points. Available in both single and multiple outputs.

## Mechanical Temperature Switches

Single set-point switches engineered to last for over a million cycles.



## Electronic Temperature Switches

Multiple set-point switches, ideal for engines, transmissions, fuel, and fan control; also available with time delay.



Multiple thread sizes, wire lengths, and connectors available (screw, spade, integrated, or with a wired connector).

## Overtemp Warning Switches

### ONE TERMINAL

TEMP	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
160	NO	1/2" NPT	8-32 Screw		8039076
165	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-25	8039059
180	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-28 / 1002-07690-28 / 1002-07324-28	8039057
185	NC	1/2" NPT	8-32 Screw	Thomas 61230658	8039050
190	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-30 / 1002-07690-30 / 1002-07324-30	8039058
190	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-30 / 1002-07474-30 / 1002-07449-30	8039010
190	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-30 / 1002-07700-30 / 1002-07450-30	8039071
195	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-31 / 1002-07690-31 / 1002-07324-31	8039064
195	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-31 / 1002-07474-31 / 1002-07449-31	8039056
200	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-32 / 1002-07690-32 / 1002-07324-32	8039065
200	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-32 / 1002-07474-32 / 1002-07449-32	8039067
200	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-32 / 1002-07700-32 / 1002-07450-32	8039032
200	NC	3/8" NPT	8-32 Screw	Thomas 61230646	8039031
205	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-33 / 1002-07690-33 / 1002-07324-33	8039054
205	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-33 / 1002-07474-33 / 1002-07449-33	8039068
205	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-33 / 1002-07700-33 / 1002-07450-33	8039051
205	NC	3/8" NPT	8-32 Screw	Medallion 1002-05769-33 / 1002-07338-33 / 1002-07476-33	8039069
210	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-34 / 1002-07690-34 / 1002-07324-34	8039014
210	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-34 / 1002-07474-34 / 1002-07449-34	8039012
210	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-34 / 1002-07700-34 / 1002-07450-34	8039034
210	NC	3/8" NPT	8-32 Screw	Medallion 1002-05769-34 / 1002-07338-34 / 1002-07476-34	8039070
215	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-35 / 1002-07690-35 / 1002-07324-35	8039019
215	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-35 / 1002-07474-35 / 1002-07449-35	8039017
215	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-35 / 1002-07700-35 / 1002-07450-35	8039092
220	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-36 / 1002-07690-36 / 1002-07324-36	8039023
220	NC	1/2" NPT	8-32 Screw	Medallion 1002-05768-36 / 1002-07474-36 / 1002-07449-36	8039021
220	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-36 / 1002-07700-36 / 1002-07450-36	8039039
220	NC	3/8" NPT	8-32 Screw	Medallion 1002-05769-36 / 1002-07338-36 / 1002-07476-36	8039053
225	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-37 / 1002-07690-37 / 1002-07324-37	8039025
225	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-37 / 1002-07700-37 / 1002-07450-37	8039041
230	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-38 / 1002-07690-38 / 1002-07324-38	8039026
230	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-38 / 1002-07700-38 / 1002-07450-38	8039042
250	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-42 / 1002-07690-42 / 1002-07324-42	8039066
250	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-42 / 1002-07700-42 / 1002-07450-42	8039045
260	NO	1/2" NPT	1/4" Spade		8039078
300	NO	1/2" NPT	8-32 Screw	Medallion 1002-05511-52 / 1002-07690-52 / 1002-07324-52	8039029
300	NO	3/8" NPT	8-32 Screw	Medallion 1002-05811-52 / 1002-07700-52 / 1002-07450-52	8039072





## Heavy-Duty Mechanical Temperature Switches

### TWO TERMINALS

TEMP	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
105	NO	1/2" NPT	8-32 Screw	Horton 15949	8037106
120	NO	1/2" NPT	8-32 Screw	Medallion 1002-05850-16	8037134
140	NC	3/8" NPT	8-32 Screw	Medallion 1002-04880-20	8037142
150	NC	3/8" NPT	8-32 Screw	Medallion 1002-07393-22 1002-07479-22	8037121
150	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-22 Old Kysor 1002-05850-22 Horton 993662/15953	8037013
160	NO	1/2" NPT	8-32 Screw	Horton 993656/16452	8037332
165	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-25 Old Kysor 1002-05850-25	8037108
165	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-25	8037107
180	NO	3/8" NPT	8-32 Screw	Medallion 1002-05825-28	8037183
180	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-28 Old Kysor 1002-05850-28 Horton 993615/15944	8037014
185	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-29 002-07988-29 Old Kysor 1002-05850-29 Horton 993616/15942	8037018
185	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-29 1002-07479-29 Horton 993619/15952	8037016
190	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-30 1002-07988-30 Old Kysor 1002-05850-30 Horton 993617/15943	8037022
190	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-30 1002-07479-30 Horton 993603/15939	8037020
195	NO	3/8" NPT	8-32 Screw	Horton P-1602/983624/993610	8037082
195	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-31 1002-07988-31 Old Kysor 1002-05850-31 Horton 993653/15957	8037026
195	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-31 1002-07479-31 Horton 993605/15949	8037024
200	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-32 1002-07988-32 Old Kysor 1002-05850-32 Horton 993654/15954	8037030
200	NO	1/2" NPT	Metri-Pack		8037225
200	NC	1/2" NPT	Metri-Pack		8037188
200	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-32 1002-07479-32 Horton 993606/ 5941	8037028
205	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-33 002-07988-33 Old Kysor 1002-05850-33 Horton 993655/15940	8037034
205	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-33 1002-07479-33 Horton 993607 / 15940	8037032
210	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-34 1002-07988-34 Old Kysor 1002-05850-34 Horton 993624/15947	8037037
210	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-34 1002-07479-34	8037036
215	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-35 1002-07988-35 Old Kysor 1002-05850-35 Horton 993625/15945	8037184
215	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-35 1002-07479-35 Horton 993665	8037039
220	NO	3/8" NPT	Weather-Pack		8037163
220	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-36 1002-07988-36 Old Kysor 1002-05850-36 Horton 993626/15948	8037041
220	NC	1/2" NPT	8-32 Screw	Medallion 1002-07393-36 1002-07479-36	8037040
250	NO	3/8" NPT	Weather-Pack		8037169
250	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-42 Old Kysor 1002-05850-42	8037111
300	NO	1/2" NPT	8-32 Screw	Medallion 1002-05554-52 Old Kysor 1002-05850-52 Horton 15946	8037112

### THREE TERMINALS

TEMP	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
160	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-24	8037090
180	CO	1/2" NPT	8-32 Screw		8037044
180	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-28	8037175
185	CO	1/2" NPT	8-32 Screw	Nav 1685131C92	8037045
185	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-29	8037176
190	CO	1/2" NPT	8-32 Screw		8037048
190	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-30 1002-07955-30	8037177
195	CO	1/2" NPT	8-32 Screw	Nav 1685132C92	8037050
195	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-31 1002-07955-31	8037093
200	CO	1/2" NPT	8-32 Screw		8037053
200	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-32 1002-07955-32	8037178
205	CO	1/2" NPT	8-32 Screw	Nav 1685171C92	8037055
205	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-33 1002-07955-33	8037179
210	CO	1/2" NPT	Weather-Pack		8037228
210	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-34 1002-07955-34	8037180
215	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-35 1002-07955-35	8037098
220	CO	1/2" NPT	8-32 Screw		8037061
220	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-36 1002-07955-36	8037099
225	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-37 1002-07955-37	8037126
240	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-40 1002-07955-40	8037127
250	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-42 1002-07955-42	8037224
255	CO	3/8" NPT	8-32 Screw	Medallion 1002-04880-43	8037181

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



## Temperature Switches for Cummins® Applications

### THREE TERMINALS

TEMP	MODE	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
100	NO	1/2" NPT	Integrated Packard	Cummins 3408624	8037318
160	CO	1/2" NPT	Integrated Packard	Cummins 3408643	8037316
185	CO	1/2" NPT	Integrated Packard	Cummins 3408639	8037322
200	CO	1/2" NPT	Integrated Packard	Cummins 3408632	8037375
200	CO	1/2" NPT	Integrated Packard	Cummins 3408636	8037380
215	CO	1/2" NPT	Integrated Packard	Cummins 3408626	8037319
205	CO	1/2" NPT	Integrated Packard	Cummins 3408631	8037321
223	CO	1/2" NPT	Integrated Packard	Cummins 4954948	8037429
223	CO	1/2" NPT	Integrated Packard	Cummins 3408627	8037320

## Electronic Temperature Switches

### SINGLE- AND DUAL-FUNCTION TEMPERATURE SWITCHES

FUNCTION 1 SET POINT	MODE	FUNCTION 2 SET POINT	MODE	OUTPUT	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
080	NC		NC	Sourcing	1/2" NPT	Metri-Pack		8036043
150	NC		NC	Sourcing	1/2" NPT	Weather-Pack	Navistar 1621011C91	8036157
160	NO	200	NO	Sinking	1/2" NPT	Metri-Pack		8036201
172	NC	187	NC	Sinking	1/2" NPT	Metri-Pack		8036217
172	NC	187	NC	Sinking	1/2" NPT	Metri-Pack		8036216
185	NC		NC	Sourcing	1/2" NPT	Metri-Pack		8036200
185	NC	195	NC	Sourcing	1/2" NPT	Weather-Pack	Navistar 1621005C91	8036143
185	NC	195	NC	Sourcing	1/2" NPT	Flying Leads	Navistar 1985130C91	8036142
200	NO	215	NO	Sinking	1/2" NPT	Weather-Pack		8036198
200	NC		NC	Sinking	1/2" NPT	Weather-Pack	Navistar 1516893C91	8036023
200	NO		NO	Sinking	1/2" NPT	Weather-Pack		8036205
200	NO		NO	Sinking	1/2" NPT	Weather-Pack		8036206
200	CO		CO	Sourcing	1/2" NPT	Screw Terminals		8036178
205	NC		NC	Sourcing	1/2" NPT	Metri-Pack	Volvo 3942759	8036167
205	NC		NC	Sourcing	1/2" NPT	Weather-Pack		8036056
205	NO		NO	Sourcing	1/2" NPT	Weather-Pack	Navistar 2016585C91	8036058
215	NO	220	NO	Sinking	1/2" NPT	None – bare wire		8036213

### COOLING FAN TIMER TEMPERATURE CONTROL SWITCHES

SET	MODE	OUTPUT	THREAD	CONNECTOR	EQUIVALENTS	INDEX #
180	NC	Sourcing	1/2" NPT	Weather-Pack	Navistar 1688070C91	8036076
195	NC	Sourcing	1/2" NPT	Deutsch	Volvo 3940177	8036165
200	NC	Sourcing	1/2" NPT	Weather-Pack		8036077
200	NO	Sourcing	1/2" NPT	Weather-Pack		8036071
205	NC	Sourcing	1/2" NPT	Weather-Pack	Mack 1MR6546M	8036079
205	NC	Sourcing	1/2" NPT	Deutsch		8036169
205	NO	Sourcing	1/2" NPT	Deutsch		8036103
205	NO	Sourcing	1/2" NPT	Deutsch		8036094
209	NO	Sourcing	1/2" NPT	Deutsch		8036105

### AIR-SENSING FAN DRIVERS w/ FAST-RESPONSE TIP

SET	MODE	OUTPUT	THREAD	CONNECTOR	INDEX #
190	NO	Sourcing	1/2" NPT	Deutsch	8036098

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



# A/C PROTECTION

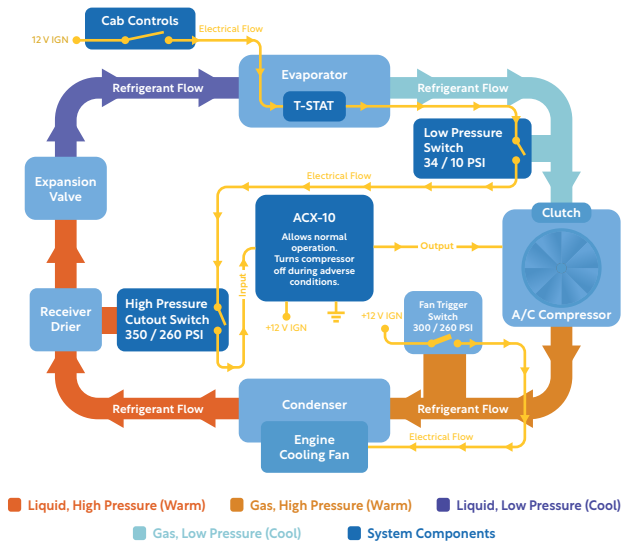
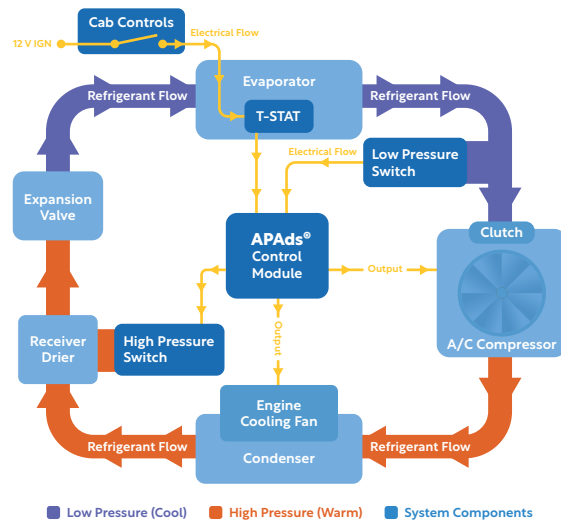
## A/C PROTECTION

Our A/C modules go beyond monitoring conditions of low or high pressure and voltage. They stop damaging events, such as over-cycling within the A/C system.



### APAdS™

Its microprocessor-based intelligence offers all the protection of the AC-X10, plus on-board diagnostics and year-round compressor lubrication.



### ACX-10

Detects rapid cycling and protects from under-voltage. The ACX-10 eliminates heat build up as well as delays the A/C clutch engagement to extend the compressor's life.

### APAdS™

CONNECTOR	EQUIVALENTS	NOTES	MODULE P/N (SERVICE PARTS)	LOW PRESSURE SWITCH P/N (SERVICE PARTS)	HIGH PRESSURE SWITCH P/N (SERVICE PARTS)
Deutsch	Volvo/Mack 25157068	-	8042105	8040189	8040135
Deutsch	Volvo/Mack 25159381	For Viscous Fan Drives	8042124	8040189	8040172
Metri-Pack	Volvo/Mack 20579815	-	8042152	8040189	8040135
Deutsch	Generic	For On/Off Fan Drives	8042103	8040189	8040135

### ACX-10

CONNECTOR	NOTES	INDEX #
Weather-Pack	ACX-10 Kit	8041188
Weather-Pack	12V, ISC	8042167
Weather-Pack	12V, ISX	8042168
Weather-Pack	12V	8042169
Metri-Pack	12V	8042171
AMP	24V	8042173
Deutsch	12V	8042178

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

## ORIGINAL EQUIPMENT SENSORS

Index Sensors offer a wide range of configurations. From custom voltage ranges, to multiple output options.

### OEM PRESSURE SENSORS



Index Pressure Sensors are custom designed for OE manufacturers for a variety of automotive and heavy duty applications.

Each sensor is fully tested to ensure the output meets certain specifications. Index's ISO 9001 Certification guarantees that every product meets strict quality requirements.

#### Absolute Pressure

This type of sensor measures the difference between a built-in vacuum reference and the pressure at the sensor port. The zero reading for an Absolute Pressure Sensor is in a complete vacuum. This type of sensor is typically used for intake manifold pressure or fuel pressure.

#### Sealed Gauge Pressure

This type of sensor measures the difference between a built in atmospheric pressure reference and the sensor port. This is very similar to a Absolute pressure sensor but has a zero at Atmospheric pressure instead of a vacuum.

#### Gauge Pressure

This type of sensor measures the difference between ambient pressure and the sensor port. The zero reading for this type of sensor is always current (atmospheric) ambient pressure. This type is less expensive than absolute pressure and commonly used for engine oil pressure.

### OEM TEMPERATURE SENSORS & ECM



Index temperature sensors have custom programmable outputs offering accurate, fast response with electromagnetic noise resistance sensing.

Configurations can have either single or dual outputs (sourcing or sinking); Analog or PWM output with multiple functions in 1 device or SAE J1939 CAN Bus communications.

Applications include: Engine intake air sensing, cooling fan & warning light, high- and low- temp interlocks, time-delay switching, HVAC control, hydraulic fluid limits, engine oil temp, transmission fluid temp, differential fluid protection.



IP68 rating steel housing



Various enclosure sizes available.

#### J1939 Sensor ECM

Supports 3-6 sensors (Pressure, Temperature, Level, ABS, Position, PWM, and other CAN or LIN-based devices) in one module and can be expanded using multiple units. Calibratable to any sensor type input including thermistor curves.

#### Pulse Width Modulation (PWM)

Standalone device that provides variable speed fan control.





## OEM LIQUID LEVEL SENSORS

Used to detect coolant level in either plastic or metal coolant tank. This is typically a water and antifreeze mixture used to cool an internal combustion engine.



The signal from the sensor is primarily connected to the electronic engine controller (ECM). Low coolant will cause an alarm and for some vehicles will result in an engine shutdown.

Wide range of customizable options: connectors, adapter harnesses, headers, threads, and fittings

## J1939 INCLINOMETER

The Inclinator is an electronic device measuring the incline of a vehicle. It is designed to communicate and share information with the onboard vehicle computer. Designed for installation on the external chassis, it is packaged in a rugged housing designed to withstand severe environmental conditions.



The Inclinator measures the acceleration forces on the vehicle in 3 axes (x,y,z) as well as the rate of change of the angular position of the vehicle in 3 axes using a built in MEMS sensor.

An embedded processor computes the current pitch and roll angles based on these raw inputs. The resulting information is filtered to reduce the effects of the chassis vibration to provide a best fit estimate of current road slope in the direction of travel (pitch) and perpendicular to the direction of travel (roll).

Composed of an electronic control module using a 6 state MEMS sensor that determines the current road grade (angle in degrees). The information is compiled and sent to the vehicle's ECU over a J1939 CAN connection.

## CUSTOM ORIGINAL EQUIPMENT

Index offers turn-key systems for thermal management including multiplexed sensors, control modules, power distribution and wiring harnesses with J1939 interfaces and diagnostics for off-road and electric vehicle applications.



Contact us for more information about custom Original Equipment products.

## LIMITED PRODUCT WARRANTY

Index warrants all of its products to be free from defects in material and workmanship under normal use and service. Any part which 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. 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 authorization has been granted 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, 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).

### 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 \$125/hour x 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 OF 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.

### Restocking Policy and Fees

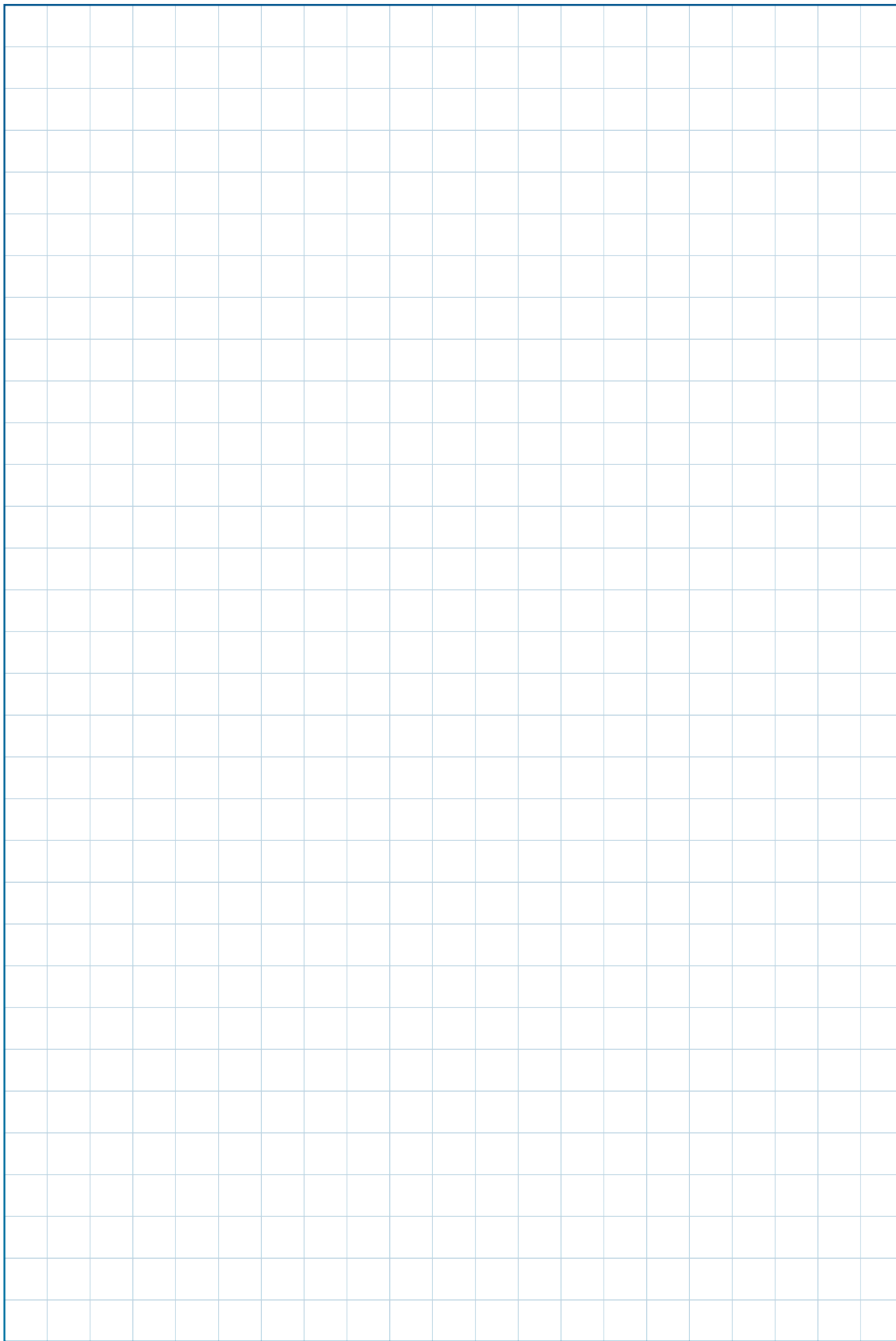
Index Sensors may, at its option, agree to accept standard stock product returns from Customer. Such standard stock product must be in its original condition. Index Sensors reserves the right to charge a restocking fee of a minimum of twenty five percent (25%) of the original selling price. Customer shall also be responsible for the payment of all shipping charges for the returned product. Engineered products, electronic modules, and any products sold as "NCNR" cannot be returned for a restocking fee.

### \*Restocking Notes

- No returns will be accepted past 12 months of original sales date, unless there is a Valid Warranty Issue
- Any refund will be issued in the form of a customer credit, and all applicable fees will be deducted from your refund.
- We reserve the right to adjust the fee amount based on the condition of the product and its packaging.
- All returned products will be tested and inspected for damage.
- Products that show signs of excessive age, abuse, or improper handling may be rejected.
- Any exceptions will be returned to sender or disposed of, based on the customer's preference.

### Warranty Periods

Unless otherwise documented, INDEX products are warranted for a period of **two (2) years** from the date of installation. If the date of installation or resale cannot be documented, the date of installation will be assumed to be ninety days after the manufacturing date coded on the product.





For 50 years, Index Sensors and Controls has supported the commercial vehicle and heavy-equipment markets with high-quality sensors, controls, and engineered solutions. Our heritage of durability, precision, and reliability continues to guide every product we build.

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