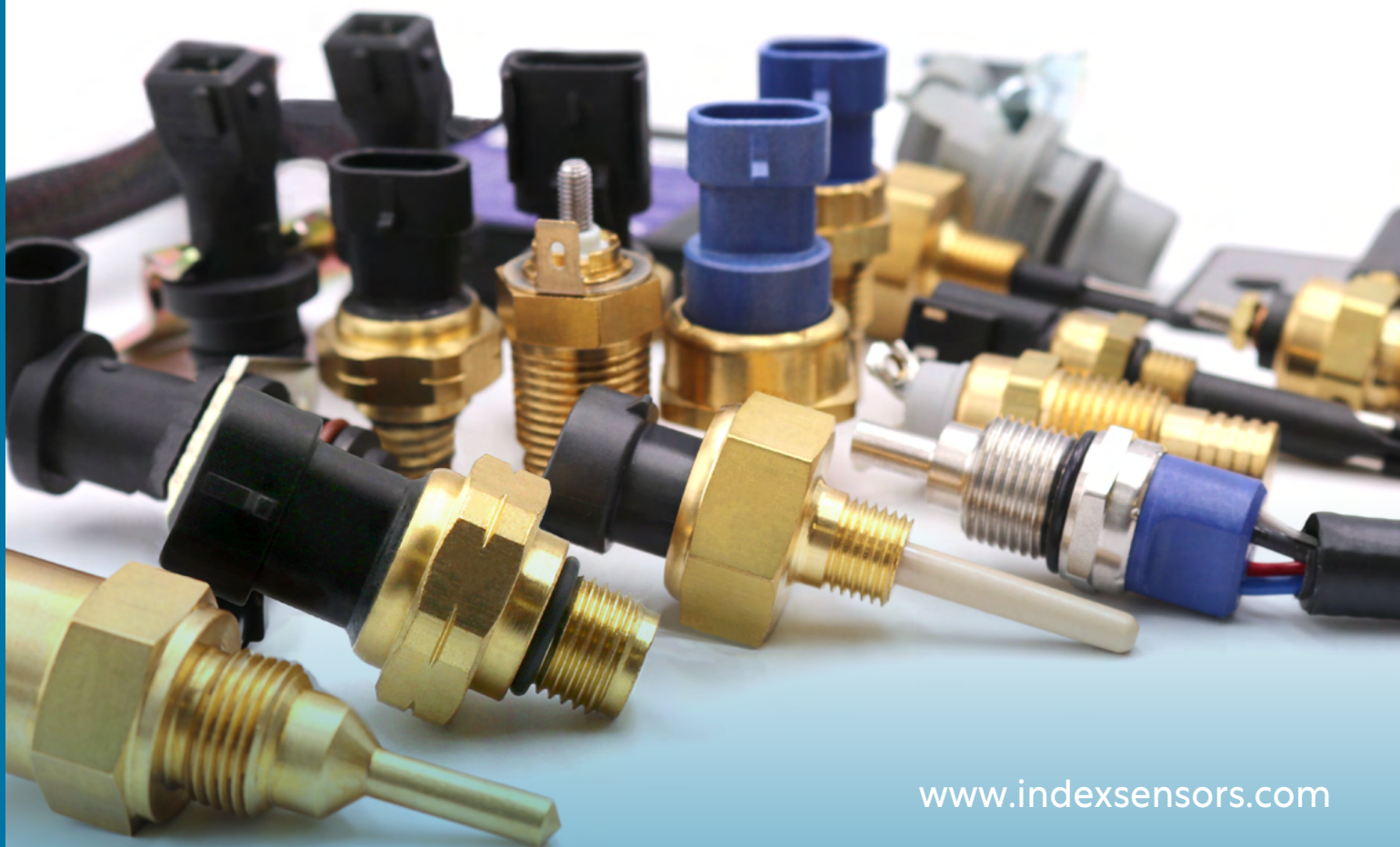




INDEX SENSORS & CONTROLS

# 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

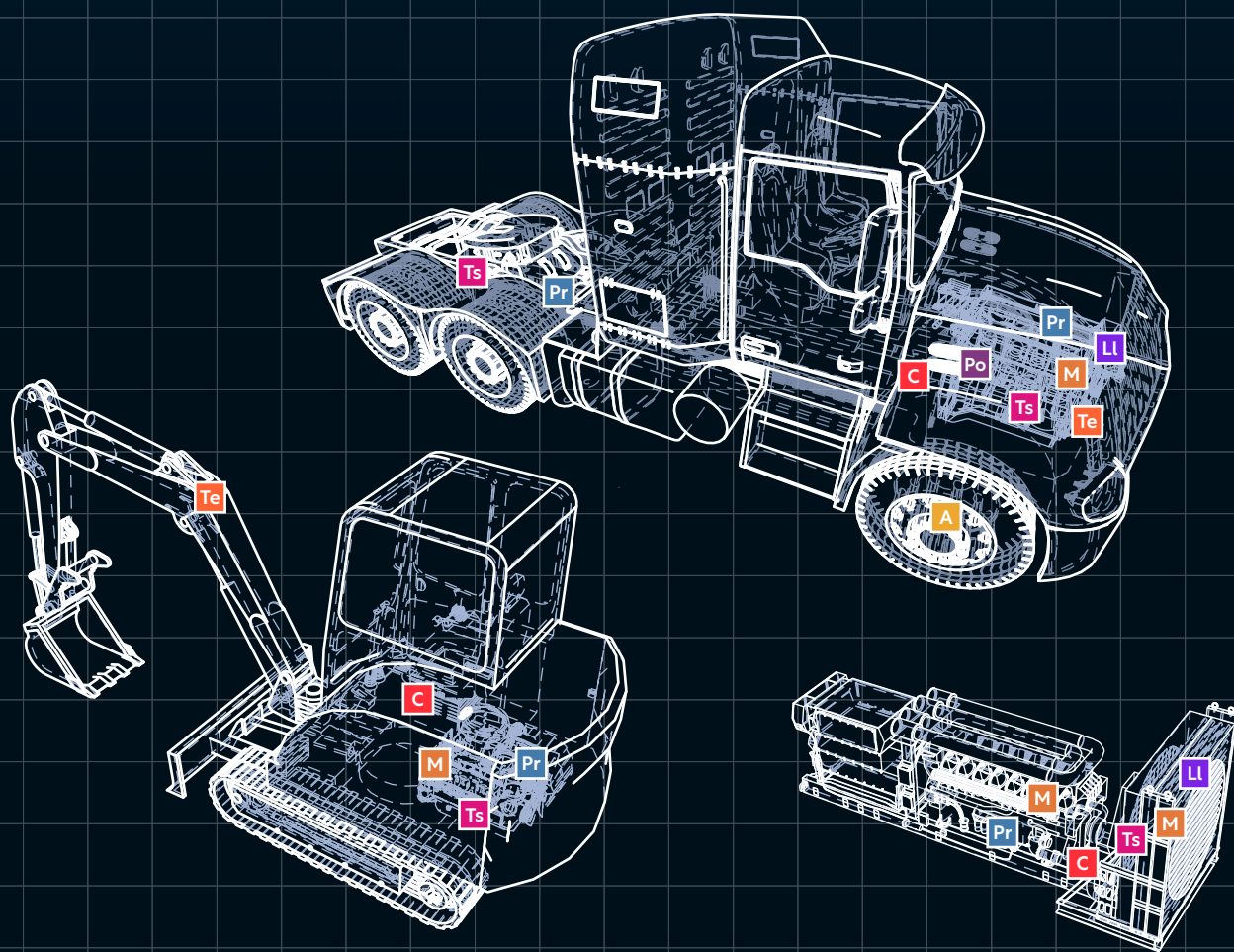
At Index, we are always looking for ways we can help enhance your products and your business. Whether you are looking for rugged and reliable products, more intelligent components or custom-engineered controls, we're ready to help. If you are interested in learning more about Index products, email us 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.

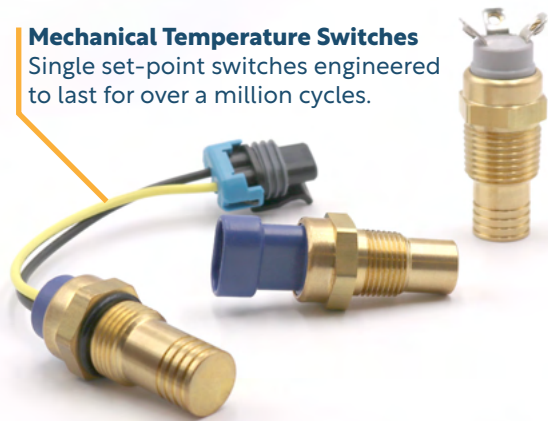


# TEMPERATURE SWITCHES

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

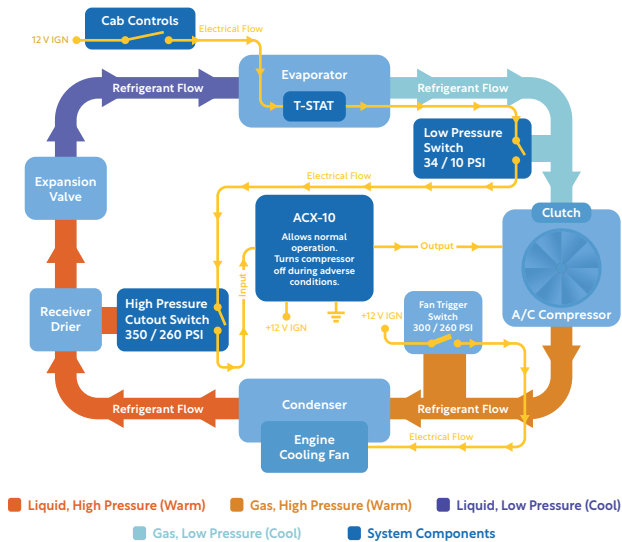
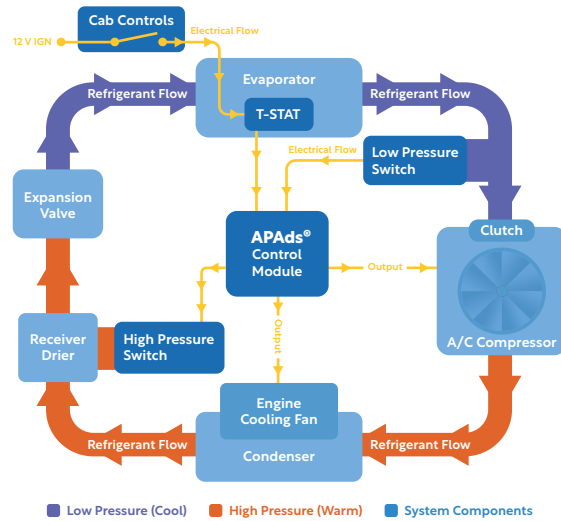
## A/C PROTECTION

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

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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

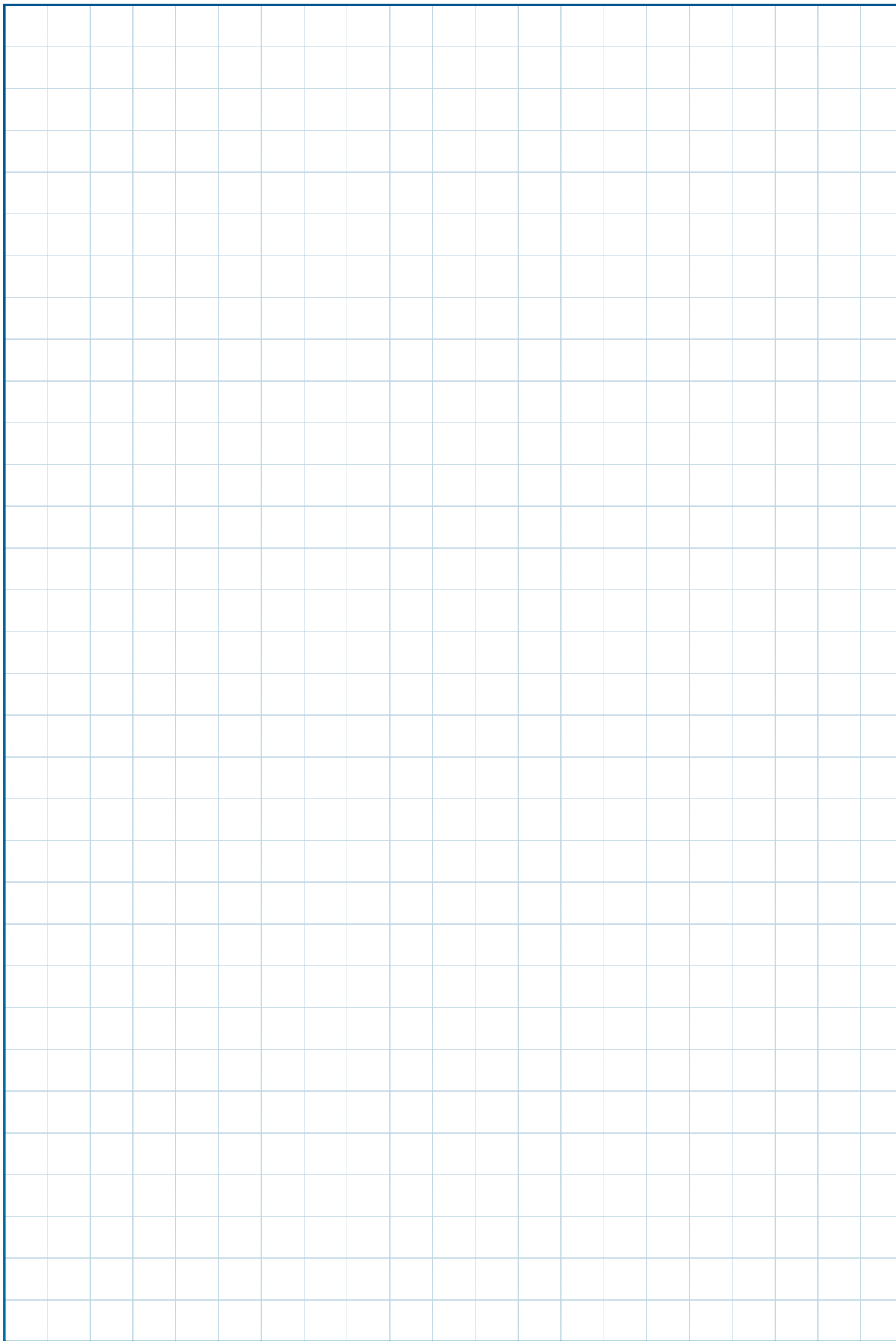
Index Sensors may, at its option, agree to accept standard stock product returns from Customer. Such standard stock product must be in its original condition. Index Sensors reserves the right to charge a restocking fee of a minimum of twenty five percent (25%) of the original selling price. Customer 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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