

# Specialty PRODUCTS & ACCESSORIES

## ELECTRONIC SWITCHES

### Single Level Speed Switch

12V Part No.

R4901

24V Part No.

NA

Speed switch will trip at preset rpm to control engine function or other control circuitry. Relay outputs can also be used to switch external circuit on or off at trip point. When ordering, specify sensor or ignition input, latched or auto -reset relay, and the desired switch point.



### Adjustable Single Level Speed Switch

12V Part No.

R4901A

24V Part No.

R4901A-24VDC

R4901A is field adjustable and designed to be used as an over rev alarm or road speed alarm. When setting is exceeded, a warning device or shutdown is activated. This unit accepts signals from ISSPRO magnetic pickup or signal generator. Set point is adjustable from 100 to 5,000 hertz. R4901A is available in unlatched (auto-reset) version only. When the set point is exceeded, the relay will remain tripped until the signal falls below the set point, when it will reset. Use R4901 factory preset to your specifications for latched applications. R4901A is not compatible with ignition inputs.

### Dual Level Speed Switch

12V Part No.

R4902

24V Part No.

R4902-24VDC

R4902 is like R4901A except it has two switch points, one upper and one lower. When ordering, specify the two switch points, sensor or ignition input, latched or auto reset relay.



### Single Level Temperature Switch

12V Part No.

R6327

24V Part No.

R6327-24VDC

R6327 is designed to activate a warning when a predetermined exhaust temperature is reached. When ordering, specify type J or K thermocouple and temperature at which you want the device to switch.



### Dual Level Temperature Switch

12V Part No.

R6326

24V Part No.

R6326-24VDC

R6326 Gives a two step warning when predetermined exhaust temperatures are reached. When the first switch point is reached, an initial warning signal is activated. When the second temperature switch point is reached, additional warnings or systems are activated. Alarm points must be specified for factory setting.



## TURBO TEMPERATURE MONITORS

Application	Voltage	Shutdown Temp	Part No.
Diesel Engines	12 VDC NG	300° F	R4130
Diesel Engines	24 VDC NG	300° F	R4130-24 VDC

This monitor can help eliminate early turbocharger failure in diesel applications. When engine ignition turned off, the R4130 idles until a safe exhaust temperature is reached, then automatically shuts down the engine. By shutting down in a cool condition, deposits are reduced and turbo life is increased. Standard shutdown is 300° F. For installation, the existing pyrometer system can be used or order lead wire R660 and a type K thermocouple.



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## TEMPERATURE SWITCHES (For 6-24V Systems • 1 Amp Switch Capacity)

Thread	Switch Setting	Terminals	Part No.
1/4" NPTF	200° F	1 STUD	R363D
1/4" NPTF	200° F	Two Blades	R363D-03
3/8" NPTF	200° F	1 STUD	R363E
1/2" NPTF	200° F	1 STUD	R363F
1/2" NPTF	212° F	1 STUD	R363B
1/2" NPTF	225° F	1 STUD	R363G
1/4" NPTF	225° F	1 STUD	R363AM
1/4" NPTF	250° F	1 STUD	R363A
1/2" NPTF	250° F	1 STUD	R363W

## PRESSURE SWITCHES (All have 1/8" NPTF Thread)

Type	Switch Setting	Terminals	Capacity	Part No.
N/O, HD	4 PSI	Two 1/4" Blades	6A • 6-24VDC	R4006-4
N/C, HD	4 PSI	Two 1/4" Blades	6A • 6-24VDC	R4007-4
N/C & N/O	4 PSI	Three 1/4" Blades	6A • 6-24VDC	R4012-4
N/O	4 PSI	1 Stud	6A • 6-24VDC	R7504
N/C	6 PSI	1 Stud	3A • 6-24VDC	R364L
N/C, HD	8 PSI	Two 1/4" Blades	6A • 6-24VDC	R4009-8
N/C	8 PSI	1 Stud	6A • 6-24VDC	R7508
N/C	15 PSI	1 Stud	3A • 6-24VDC	R364K
N/O, HD	15 PSI	Two 1/4" Blades	6A • 6-24VDC	R4008-15
N/C, HD	15 PSI	Two 1/4" Blades	6A • 6-24VDC	R4009-15
N/O, HD	60 PSI	Two 1/4" Blades	6A • 6-24VDC	R4010-60
N/C, HD	60 PSI	Two 1/4" Blades	6A • 6-24VDC	R4011-60



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## SOLID STATE LOW COOLANT ALARMS

Voltage	Relay Current	Kit Contents	Kit Part No.
12 VDC	20 Amp (Normally Open) 10 Amp (Normally Closed)	Probe, Warning Light, Buzzer	R4290
Low Coolant Alarm Module Only for R4290			R4291
24 VDC	20 Amp (Normally Open) 10 Amp (Normally Closed)	Probe, Warning Light, Buzzer	R4290-24VDC
Low Coolant Alarm Module Only for R4290-24VDC			R4291-24VDC

Plastic radiators require two probes. Contact factory for isolated coolant level probe.  
Solid state low water alarm uses AC to detect low coolant conditions. This eliminates potential plating problems. High current relay 20A (NO), 10A (NC) relay will handle most shutdown or alarm circuits.

## WATER LEVEL PROBES

Sensor • 2.36" extension beyond threads	R1220L
Sensor • 1.36" extension beyond threads	R1220S
Sensor • Isolated Ground	R1220-ISO
Plug and Wire Assembly	R1220-ISO-PL

## ENGINE SHUTDOWN KITS

**R4020 Engine Shutdown Protection Kit**  
For use in mobile applications (trucking, automotive). Solid state engine protection module with 20A(NO) or 10A(NC) contacts to handle heavy switch loads. The kit includes a 12 VDC R4022 shutdown module (15 second delay for engine starting and 30 second delay before the shutdown after alarm), low coolant probe, low oil pressure switch (7-9 PSI), high engine temperature switch (225°F), warning light and buzzer. Contact ISSPRO, INC. for isolated coolant level probe.  
For 24 volt order, R4020-24VDC.

**R4021 Engine Shutdown Protection Kit**  
For use in stationary engines.  
Solid state engine protection module with 20A(NO) or 10A(NC) contacts to handle heavy switch loads.  
The kit includes a 12 VDC R4023 shutdown module (30 second delay to allow engine starting, then immediate shutdown with alarm), low coolant probe, low oil pressure switch (7-9 PSI), high engine temperature switch (225°F), warning light and buzzer. Specifications are the same as R4020 shutdown kit but for use in stationary engine applications (immediate shutdown after alarm).  
For 24 volt order R4021-24VDC.

**R4022 Engine Shutdown Protection Control Module only.**  
(for R4020 kit)

For 24 Volt Application

**R4023 Engine Shutdown/Protection Control Module for use**  
in stationary engine applications (generator, pump).

For 24 Volt Application



# Specialty PRODUCTS & ACCESSORIES

## GAUGE MOUNTING ACCESSORIES

### Mounting Brackets

Black	Chrome	No. of Gauges	Gauge Diameter
R7610	R7611	1	2 1/16"
R7620	R7621	2	2 1/16"
R7630	R7631	3	2 1/16"
R7608	N/A	1	3"
R7680	R7681	1	3 3/8"

### Mounting Cups

Black	Chrome	Size	Description
R7602	R7602C	2 1/16"	For Gauges
R7602-05	N/A	2 1/16"	For Gauges - Plastic Case
R7603	R7603C	3"	For Pyrometers
R7601B	R7601C	3 3/8"	For Speedos and Tachs
R7605B	7605C	5"	For Speedos and Tachs
R7615	N/A	5"-5 1/2"	Adapter Plate

## HEAVY DUTY FULL SWEEP VOLTMETERS & AMMETERS

Type	Scale	Part No.
Voltmeter	7-18 VDC	R8802
Ammeter/Shunt	100-0-100	R8808
Ammeter/Shunt	150-0-150	R8810
Ammeter/Shunt	200-0-200	R8812
Ammeter/Shunt	300-0-300	R8814



Shunt (Typical)



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## RELAYS, BUZZERS & WARNING LIGHTS

Description	Part No.
12 VDC NG NC Relay 20 Amp with Connector	R7021
12 VDC NG Buzzer	R7060
12-24 VDC NG Buzzer with Steady Tone	R7064
12-24 VDC NG Buzzer with Pulse Tone	R7066
12-24 VDC NG • 103 dBA Buzzer	R7074
12 VDC NG Buzzer and Light	R7085
24 VDC NG Buzzer and Light	R7085-24VDC
Red Warning Light for 3/4" Diameter Cut Out	R7051
Red Warning Light Marked "LOW WTR" for 3/4" Diameter Cutout	R7056

## HOURLMETERS

Description	Voltage	Bezel	Part No.
2 1/16" Diameter Hourmeter with Snap On Clamp	4-40 VDC	Black	R8861
2 1/16" Diameter Hourmeter with Snap On Clamp	10-80 VDC	Black	R8861HV
2 1/16" Diameter Hourmeter with Snap On Clamp	4-40 VDC	Stainless	R8862
2 1/16" Diameter Hourmeter with Snap On Clamp	10-80 VDC	Stainless	R8862HV
3 Screw SAE Mount Hourmeter	4-40 VDC	Black	R8863
3 Screw SAE Mount Hourmeter	10-80 VDC	Black	R8863HV
Rectangular Mini Meter with 1.39" X 1.25" Viewing Area	10-80 VDC	Black	R8864HV
2 1/16" Digital Hourmeter with Clamp Mount	9-60 VDC	Black	R8865*
Rectangular Digital MiniMeter with 1.07 X .89" Viewing Area	12-48 VDC	Black	R8866*

\*Solid State Memory Retains Reading when Voltage is Removed.

## VOLTAGE REDUCERS

Application	Part No.
FOR 24-12 VDC NG GAUGES	R7934
FOR 32-12 VDC NG GAUGES	R7936

For use on R8600, R8700, R9000, and R9700 Series Gauges Only.

One voltage reducer is required for each gauge. Voltage reducers are not designed for light bulb applications.

SPECIALTY PRODUCTS