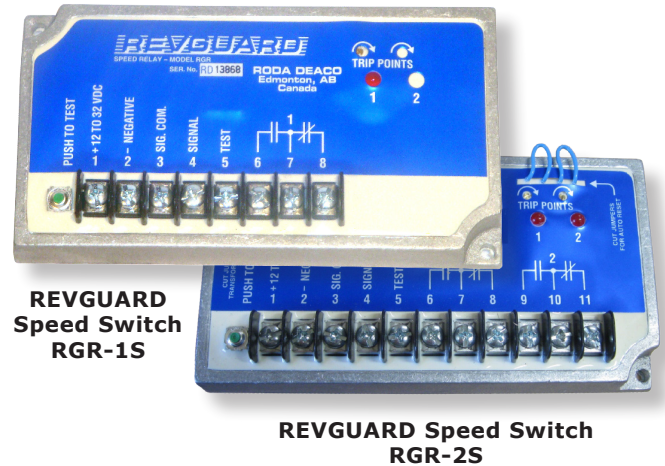


# REVGUARD 1 Speed Switch

## Models RGR-1S and RGR-2S

### Overview

The Roda Deaco REVGUARD Speed Switch continuously monitors engine RPM. In the event of an RPM overspeed condition, REVGUARD transmits a signal to close the air intake shutoff valve to shut down the engine.



### Typical Applications

- Drilling rigs (onshore & offshore)
- Drilling support equipment
- Well servicing equipment
- Refinery support equipment
- Bulk haulers and tankers
- Mining equipment
- Construction equipment
- Generator sets
- Emergency response vehicles and equipment
- Aircraft refueling equipment
- Work boats
- Barges
- Agriculture equipment

### Key Features and Benefits

- Aluminum frame for ruggedness
- Polyurethane encapsulated for protection from fuel, moisture, and dirt
- Factory set trip point, easily adjusted in the field
- Built-in test switch simulates overspeed at two thirds RPM setting without over revving engine
- Provision for remote test switch
- Auto reset
- LED trip indicator
- Normally open and normally closed output contacts rated at 5A
- Operates from 12 VDC to 32 VDC
- Wide operating temperature range -22°F to 167°F (-30°C to 75°C)
- Screw terminals for easy installation

# REVGUARD 1 Speed Switch

## Operation

Roda Deaco Model RGR monitors engine RPM via a magnetic pick-up mounted on the engine's flywheel housing or an AC signal from the alternator.

When engine RPMs exceed the RGR's set point, the RGR trips, sending an electrical signal to the Intake Air Shutoff Valve.

Two versions of the Model RGR Speed Switch are available: Single RPM set point and dual RPM set point.

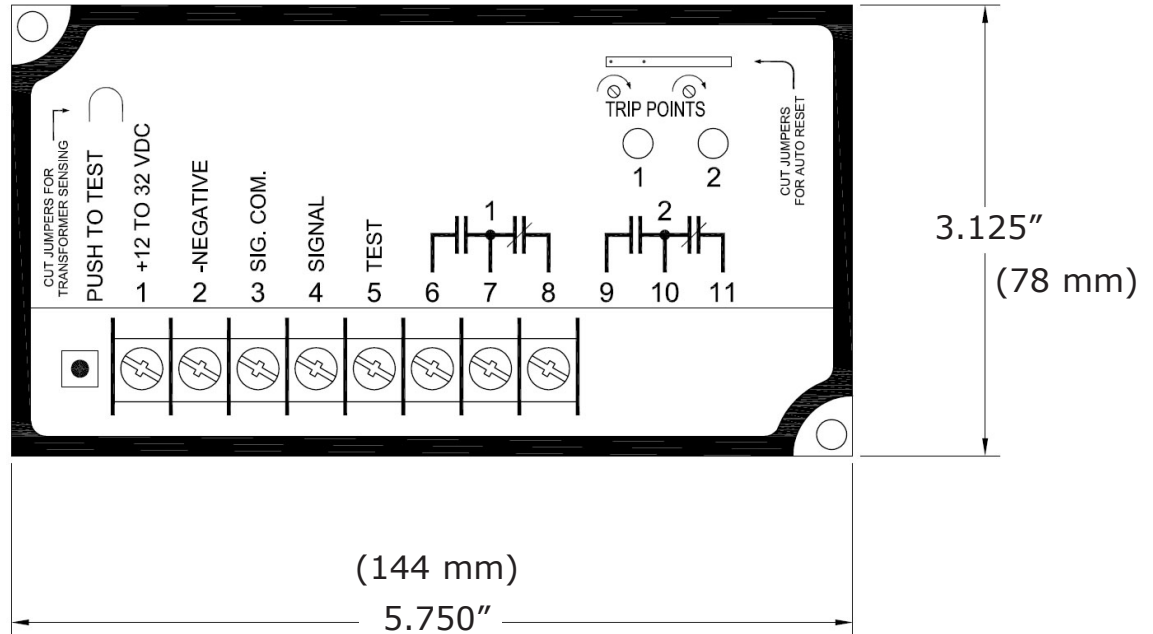
The Model RGR includes a test button to temporarily reduce the trip point to 2/3 of the set point limit. This permits testing the overspeed emergency shutdown system without overspeeding the engine.

## Specifications

<b>Input Power:</b>	Supply voltage	12V - 32 VDC with reverse polarity protection	
	Max operating current	At 12 VDC	0.07A
		At 24 VDC	0.08A
		At 32 VDC	0.09A
<b>Input Signal:</b>	Frequency range	10 Hz - 8,000 Hz	
	Input signal type	Sine Wave or Square Wave	
	Setpoints	RGR-1S: 1 setpoint	RGR-2S: 2 setpoints
	Setpoint repeatability	Less than 1% deviation	
<b>Output Signal:</b>	Contact relay	5A at 12 VDC	
	Local trip indication	Red LED	
		RGR-1S: 1 indicator	RGR-2S: 2 setpoints
	Automatic reset	at 10% below RPM setpoint	
<b>Testing:</b>	Test function	Reduces set point(s) by 1/3 while activated	
	Activation	Push button on RGR	
		Provision for remote testing activation	
<b>Physical Properties:</b>	Body material	Aluminum	
	Wire terminals	Plated screw terminals	
	Recommend wire gauge	14 AWG	
	Operating temperature range	-22°F to 167°F	-30°C to 75°C

# REVGUARD 1 Speed Switch

## Dimensions and Weights



**Height:** 1" (25mm)

**Weight:** .5 lb (0.23 kg)

## How to order

When ordering the Model RGR Speed Switch please provide the following information:

- Specify Roda Deaco Model No.: RGR-1S with 1 trip set point or
- Model No.: RGR-2S with 2 trip set points

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