



# PROXIMITY SENSORS and VANE SENSOR OVERVIEW

**GRI PROXIMITY SENSORS** are encapsulated reed switches actuated by a magnetic field. These sensors are excellent when used on interlocks. GRI application engineers are available to answer questions on our standard product line or to assist with your custom design requirements.

**METHODS OF ACTUATION** GRI proximity switches detect the closeness of two mechanical parts by having the sensor mounted on one part and the actuator/permanent magnet mounted on the other part. GRI PV-40 vane sensors are actuated when a ferrous plate is passed between the switch and magnet.

**GRI CUSTOM SENSORS** You can have a proximity sensor designed to fit your exact needs. GRI engineers have the ability to design a product around your application.

**MAKING THE CORRECT SENSOR CHOICE** When choosing the sensor for your application, please consider where it is to be mounted, the temperature(s) it will be exposed to, electrical requirements, life expectancy, what you plan to sense and the type of load conditions. By planning ahead in this manner, you will save both time and money, avoiding costly errors.

## ◆ HIGH RELIABILITY - LONG LIFE

The switching device (reed switch) is hermetically sealed in an inert atmosphere. Proven construction techniques insure long electrical and mechanical life. No mechanical adjustments are necessary during operational life.

## ◆ EXCEPTIONALLY VERSATILE

The switching device (reed switch) is hermetically sealed in an inert atmosphere. Safe for use in volatile and hazardous environments because there is no exposed arching.

## ◆ SMALL SIZE AND ENERGY SAVING

Compact size and multiple mounting configurations allow use of these sensors in a wide range of applications. All sensors in this catalog are standard items and available in any quantity.

## ◆ IMMUNE TO DUST AND DIRT

Hostile environments are a common application for these versatile sensors, because the switching device (reed switch) and contacts are hermetically sealed in an inert atmosphere. Extremes of operational temperature ranges from -40° to +85°C.

## GENERAL APPLICATIONS

- ◆ **AUTOMATION** Energy management, position switch
- ◆ **AUTOMOTIVE** Car door switches, hand/parking break, fuel dispensing switch, brake fluid
- ◆ **BEARINGS** Sensing rotation
- ◆ **COMMERCIAL AVIATION**
  - ◆ **DISC DRIVES**
  - ◆ **FOOD PROCESSING**  
Conveyors
  - ◆ **GAUGING** Flow detection, probe depth indicators, distance measurement, direction indicators
  - ◆ **HYDRAULICS** Hydraulic and pneumatic cylinders, linear actuators
  - ◆ **INSTRUMENTATION**  
Instrument case interlocks, dial rotation counters, ease/cover interlocks, limit switches
  - ◆ **MACHINE TOOLS**
  - ◆ **MACHINERY** Mail sorting machines, golf carts, hay balers, washing machines, elevators, conveyors, tractors, packaging machines, grain elevator conveyor status, copiers, chain saws
- ◆ **MATERIAL HANDLING**  
Paper roll size indicator, Down-hole pipe indicator
- ◆ **MEDICAL** Cabinet security, access control
- ◆ **MILITARY / AEROSPACE**
- ◆ **PACKAGING** Packaging machines, paper roll size indicator
- ◆ **PRINTING** Paper path sensing
- ◆ **PROCESS CONTROL** Shaft rotation counters, liquid level control, flow sensing, flow measurement, valve position sensing
- ◆ **NUCLEAR**
- ◆ **OPTICAL**
- ◆ **RESEARCH & DEVELOPMENT**
- ◆ **ROBOTICS** Robot position sensing
- ◆ **SAFETY** Operator safety switch, machine guards
- ◆ **SECURITY** Security locks, security anti-tampering

**GEORGE RISK INDUSTRIES, INC.**

802 S. Elm St.  
KIMBALL, NE 69145

[WWW.GRISK.COM](http://WWW.GRISK.COM)



Made in U.S.A.

**TOLL-FREE 1-800-445-5218**

**TOLL-FREE 1-800-523-1227**

**(308) 235-4645**

**FAX (308) 235-2609**

**E-MAIL: [dough@grisk.com](mailto:dough@grisk.com)**