

Speed, Temperature and Pressure Sensors

# SENSORS

## For Digital Control Systems

Reliable,  
high-precision sensing

Strong, compact design

Long life cycle

Wide range of  
measuring applications



Designed to suit  
HEINZMANN products

Maintenance-free



# SENSORS

## for digital control systems

**HEINZMANN offers complete solutions for the monitoring and control of engines and turbines. This involves a complete range of high-quality sensors that are fully customisable and can be configured to match any product specification.**

HEINZMANN sets very high standards for its sensors to ensure that they comply with the most stringent industrial standards and suit customers' needs even in the most severe environments. Some of our sensors are certified for use in special applications.

Continuous improvement and systematic product development form part of HEINZMANN's philosophy. Based on customers' needs, we keep working on developing new sensor types for use under even the most difficult conditions.

Further we offer our experience and expertise for developing new sensors in cooperation with customers. This is why our sensor range covers almost any application requirement.

## APPLICATIONS

- ▶ Gas, diesel & dual fuel engines
- ▶ Gas, steam & water turbines
- ▶ Generators
- ▶ Marine
- ▶ Rail
- ▶ On- and off-road vehicles

## FEATURES

- ▶ Reliable, high-precision sensing
- ▶ Designed for HEINZMANN products
- ▶ Wide range of measuring applications
- ▶ Strong, compact design
- ▶ Long life cycle
- ▶ Maintenance-free

## SENSOR TYPES

HEINZMANN sensors are classified by application and design and are available in the following types: Temperature, pressure and speed sensors.

## Temperature sensors

HEINZMANN high-quality temperature sensors based on PT100, PT200 or PT1000 measuring cells are used on all HEINZMANN systems and have become the industry bench mark for response times, long-term stability and measurement precision.

Our temperature sensors are suitable for measuring fluids and gases. They have IP65 protection rating. Measuring range of PT100/PT200 -40 °C up to +800 °C (short time +900 °C) and PT1000 -40 °C up to +150 °C.



## Pressure sensors

HEINZMANN offers gas, boost and oil pressure sensors tailored to virtually any specification.

HEINZMANN pressure sensors are renowned for their accuracy and reliability and guarantee precision pressure sensing.

Sensors have an IP65 protection rating and are available for pressures ranging from 0 to 2.5, 4, 10, 16 and up to 2,000 bar.



## Speed sensors

### INDUCTIVE SPEED SENSORS

Inductive speed sensors are one of the most cost-effective methods for measuring speed.

These are contactless sensors and therefore free from wear. They can be customised to a wide range of requirements. Strongly built, the sensors are designed for intensive applications in severe environments.



HEINZMANN inductive speed sensors are available with metric or inch threading. Sensors have IP55 protection rating and are designed for frequencies from 50 to 12,000 Hz and air gap range 0.5 - 2.5 mm.



For use in PHLOX Ignition Systems HEINZMANN provides a camshaft position sensor with speed independent triggering and defined polarity of signal.

### HALL-EFFECT SPEED SENSORS

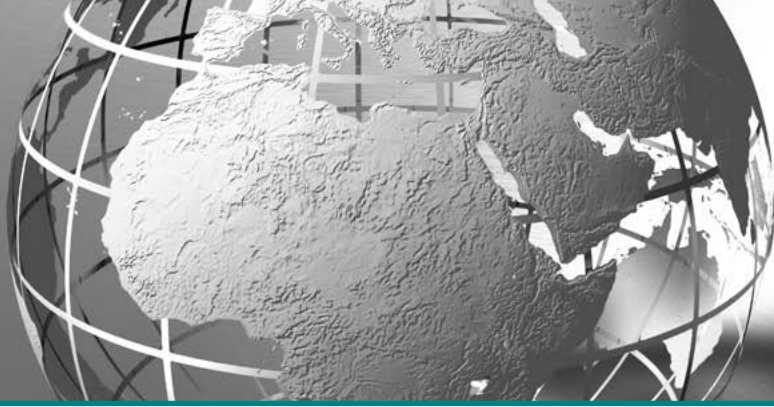
Hall-effect sensors are ideal for the contactless, wear-free measurement of speed. The advantage of Hall sensors in comparison with inductive speed sensors is that the output signal is not dependent on speed. Sensing is based on tooth position. Varying the tooth configuration makes it possible to tailor this sensor type to a wide variety of applications. Hall speed sensors are also less sensitive to external interference.

Inductive speed sensors are unsuitable for the control of injection systems. Hall-effect speed sensors, on the other hand, are ideal for electronic injection systems and electrically controlled gas valves.

Hall speed sensors have an IP65 protection class rating and operate at a switching frequency of 5 to 20,000 Hz and air gap range 0.5 - 2 mm.



For operation temperature and other technical details of the respective sensor please see manual.



## HEINZMANN GROUP – THINKING IN DRIVE AND CONTROL

HEINZMANN is a globally active family business founded in 1897 with its headquarters in Schönau (Germany), in the Black Forest.

Today, in the field of engine management HEINZMANN is one of the leading suppliers of components and systems for industrial combustion engines, generators and turbines. As a specialist and development partner, HEINZMANN is committed to developing exactly the right solution for increasing efficiency and reducing emissions.

In the Electric Drives division, HEINZMANN also demonstrates innovative strength and development expertise in engine technologies of the future. The company has established itself as a reliable partner and system provider for electric drive systems.

Our collaborative interaction with more than 40 globally active subsidiaries and sales companies characterizes the spirit within the HEINZMANN group of companies and makes us a reliable partner.

## HEINZMANN SUBSIDIARIES

### Headquarters HEINZMANN Group Germany

Germany

**Heinzmann  
GmbH & Co. KG**  
**Schönau**

Phone +49 7673 8208-0  
info@heinzmann.de  
www.heinzmann.com

Australia

**Heinzmann Australia Pty Ltd**

Geebung QLD  
Phone +61 7 3868 3333  
info.au@heinzmann.com  
www.heinzmann.com.au

China

**Heinzmann Power Control  
(Jiaxing) Co. Ltd.**

Jiashan  
Phone +86 573 8466 1358  
hzm-sh@heinzmann.com  
www.heinzmann.cn

Germany  
**CPK Automotive GmbH & Co. KG**

Münster  
Phone +49 251 777 969-0  
info@cpk-automotive.com  
www.cpk-automotive.com

United Kingdom

**Heinzmann UK Ltd.**

Middlesbrough  
Phone +44 1 642 467 484  
info@heinzmannuk.com  
www.heinzmann-turbine-  
controls.com

**Regulateurs Europa Ltd.**

Colchester  
Phone +44 1206 799 556  
sales@regulateurseuropa.com  
www.regulateurseuropa.com

**Giro Engineering Ltd.**

Southampton, Hampshire  
Phone +44 1489 885 288  
giro@giroeng.com  
www.giroeng.com

Korea

**Heinzmann /  
Regulateurs Europa  
Korea Pte. Ltd.**

Ulsan  
Phone +82 52 227 7673  
heinzmann@korea.com

The Netherlands

**Regulateurs Europa B.V.**

Roden  
Phone +31 5050 19888  
sales@regulateurs-europa.com  
www.regulateurseuropa.com

Norway

**Heinzmann Automation AS**

Kleppestø  
Phone +47 55 26 56 86  
post@heinzmann.no  
www.heinzmann.no

Austria

**Heinzmann IFT GmbH**

Uderns  
Phone +43 5288 62258-0  
office@heinzmann-ift.com  
www.heinzmann-ift.com

South Africa

**Heinzmann Südafrika**

Stellenbosch  
Phone +27 82 6898100  
diemont@worldonline.co.za

Ukraine

**Heinzmann /  
Regulateurs Europa**

Kiev  
Phone +38 44 331 96 75  
hzm-kiev@hzm.com.ua

USA

**Heinzmann /  
Regulateurs Europa  
America Inc.**

Glendale Heights, IL  
Phone +1 970 484 1863  
info.usa@heinzmann.com