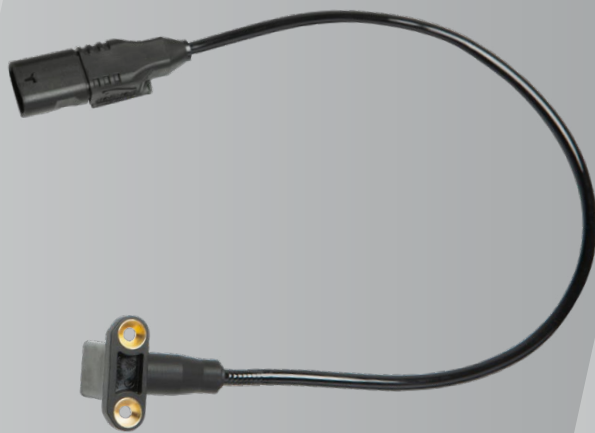


# Hall Linear Position Sensors

The Components for Optimal  
Values in Any Position



HIRSCHMANN  
AUTOMOTIVE

# HALL LINEAR POSITION SENSORS

Our linear position sensors have a particularly long service life.

Due to the magnetic system, they detect the position precisely and reliably.



TIPOVER SWITCH

## TIPOVER SWITCH

### Application

- linear position sensing of a cooler bypass flap
- contactless hall technology

### Your Benefits

- no wear parts
- high chemical resistance
- programmable output characteristics
- high temperature resistance, up to 150° C
- compensated temperature influence
- robust design for the engine compartment
- absolute differential measuring system



PRESSURE BOX SENSOR

## PRESSURE BOX SENSOR

### Application

- linear position sensing of a turbo charger actuator
- contactless hall technology

### Your Benefits

- no wear parts
- high chemical resistance
- programmable output characteristics
- high temperature resistance, up to 160° C
- compensated temperature influence
- robust design for the engine compartment
- absolute differential measuring system



LINEAR POSITION SENSOR FOR ENGINE APPLICATION

## LINEAR POSITION SENSOR FOR ENGINE APPLICATION

### Application

- linear position sensing of a regulating valve
- contactless hall technology

### Your Benefits

- no wear parts
- high chemical resistance
- programmable output characteristics
- high temperature resistance, up to 150° C
- robust design for the engine compartment

# LINEAR POSITION SENSOR FOR WATER PUMP APPLICATION

## Application

- linear position sensing of a controlled water pump
- contactless hall technology

## Your Benefits

- no wear parts
- high chemical resistance
- programmable output characteristics
- high temperature resistance, up to 125° C
- compensated temperature influence
- robust design for the engine compartment
- absolute differential measuring system



LINEAR POSITION SENSOR FOR  
WATER PUMP APPLICATION

## TECHNICAL PRODUCT INFORMATION

|                        | DESIGNATION | MIN. VALUE | TYPE VALUE | MAX. VALUE |
|------------------------|-------------|------------|------------|------------|
| POSSIBLE LINEAR TRAVEL |             | 0 mm       |            | 40 mm      |
| LINEARITY ERROR        | lin_error   | ±0.5 %VDD  |            | ±2.0 %VDD  |
| AIR GAP                | airgap      | 0.2 mm     |            | 10 mm      |
| SUPPLY VOLTAGE         | VDD         | 4.5 V      | 0.5 V      | 5.5 V      |
| SUPPLY CURRENT         | IDD         |            |            | 10 mA      |
| INITIALIZATION TIME    | tstart      |            |            | 5.0 ms     |
| REFRESH RATE           | tout        |            |            | 300 µs     |
| ESD COMPATIBILITY      | ESD         |            |            | 15 kV      |
| OPERATING TEMPERATURE  | amb         | -40° C     | +25° C     | +160° C    |
| TIGHTNESS              |             |            | IP67       | IP6K9K     |

SEEKING MORE DETAILED INFORMATION?  
SCAN ME AND VISIT OUR WEBSITE.



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