

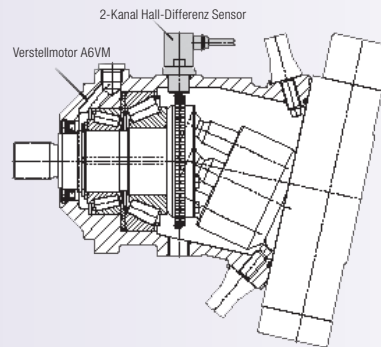
Application-Report - Mobile hydraulics

Rexroth Bosch Group

Task:

The speed and rotation of direction of hydrostatic drives are to be measured and passed on to the control system. The environmental conditions place extreme demands on the reliability and sturdiness of the sensors.

These drives can be used for snowplows, street cleaning vehicles, agricultural machines and any sort of construction machines. But they can also be used in drill heads of tunnel boring machines or in special vehicles.



Source: Bosch Rexroth

Solution:

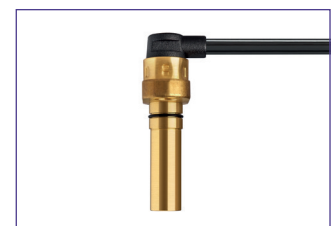
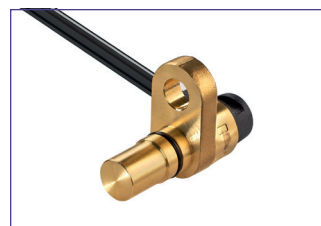
Depending on the version, the two-channel differential hall-effect sensors of the FEpp series either transmit two frequency signals, which are phase shifted by 90° or one frequency signal, and one rotational direction signal (0 / 24 V).

These sensors can be used at pressures of up to 20 bar and at temperatures between -40 °C and +125 °C. They meet the toughest requirements in terms of thermal shock resistance, electromagnetic compatibility, vibration resistance, shock resistance and resistance against different oil types, diesel, salt fog and high-pressure cleaners.

The FEpp sensors not only impress with their small size but also with their high protection class IP6K9K.

Furthermore the output signal push-pull offers more flexibility regarding electronic connection. This sensors comes in standard with an overmolded DEUTSCH connector DT04-4P which supports the robust design for heavy duty application additionally.

Different modules of this sensors are used e.g. in hydrostatic drives by Bosch-Rexroth - Mobile Hydraulics.



2-Channel Differential-Hall FE Push-Pull



RHEINTACHO is a flexible, highly efficient partner- wherever speed must be measured, monitored or indicated. Innovation, the most modern production techniques and equipment, meticulous quality control along with a first-class workforce are the corner stones of our company. For the past 114 years, Rheintacho has used his extensive knowledge and experience to developed sensors, systems and customized solution to meet the customer's requirements.