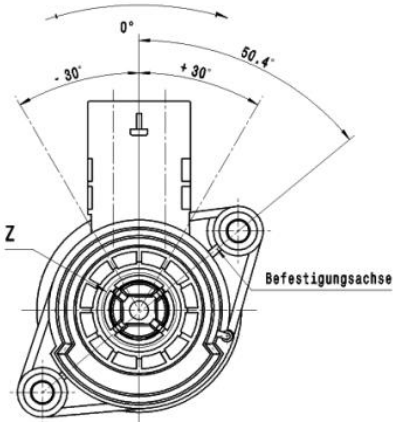
Fast Facts

Hall-effect Position Sensor 91020

The KYOCERA AVX Sensor 91020 is a high-performance Hall position sensor designed for precise angle and position measurement in demanding industrial and automotive environments. Its robust construction and stable signal processing make it an ideal solution for systems where accurate position feedback is critical for operational safety, control accuracy, and system efficiency. Using advanced Hall sensing technology, the sensor enables reliable detection of rotational movement within a defined measurement range.
The analog output signal allows seamless integration into PLC systems, microcontrollers, automotive control units and industrial control units. Engineers and system designers benefit from consistent signal quality, minimal drift, and excellent repeatability even under harsh operating conditions.

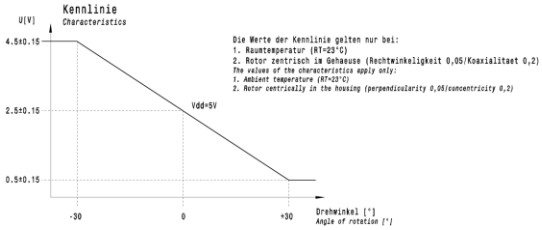
Special Features

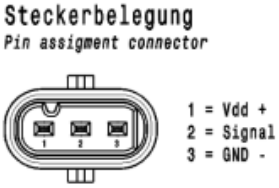
- Hall-effect technology
- Angle range: 60°
- Electrical interface: single-channel analog output signal (0.5 - 4.5 V)
- Supply voltage: 5 V
- Operating temperature range: -40 °C to +125 °C
- Connector: Hirschmann device plug 3-pole, coding A
- Sealing grade: IPX9K (in mounted state)
- RoHS / REACH compliant (Pb-free accord. to techn. rules)
- Robust lifetime with >1 mill. cycles
- High accuracy independent linearity ±2 %V_{dd}



Typical Applications

- Electric drives and servo motors
- Valve and actuator position monitoring
- Automotive valve and throttle control
- Industrial automation and robotics systems
- Conveyor and material handling equipment
- Agricultural and construction machinery
- Off-highway and commercial vehicle systems
- Hydraulic and pneumatic control systems
- Industrial machinery and plant engineering
- Packaging and production machinery
- Process automation in chemical and food industries





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