Honeywell

Hall-effect Position Sensors with Sealed Housing

103SR Series

Datasheet

Hall-effect Position Sensors with Sealed Housing

The 103SR Series Hall-effect position sensor assemblies are sealed in aluminum or stainless-steel threaded housings and meet NEMA 3, 3R, 3S, 4, 4X (stainless-steel housing),12 and 13 requirements. They respond to the magnetic field from permanent magnets or electromagnets. These rugged non-contact sensing products use versatile, reliable Hall-effect sensor ICs that are operated by a magnetic field and are designed to respond to alternating North and South Poles or to South Pole only.

103SR Series Hall-effect position sensors include digital unipolar, latching, and linear magnetic types, available in a number of sensitivities to meet a variety of customers' application requirements. The digital version of 103SR Series Hall-effect position sensors delivers stable output over -40 °C to 100 °C [-40 °F to 212 °F] temperature range with 20 mA current sinking capability, and can accept dc supply voltage from 4.5 Vdc to 24 Vdc. The linear version operates from -40 °C to 125 °C [-40 °F to 257 °F] across a supply voltage range of 4.5 Vdc to 10.5 Vdc.

The standard open-collector sinking output (digital devices) or push-pull output (linear device) of the 103SR Series Hall-effect position sensors can be easily interfaced with common electronic circuitry such as microprocessors, integrated logic, discrete transistors, and SCRs with compatible voltage specifications.

What makes our sensors better?

- Honeywell magnetic sensing experience
- Robust, sealed housing
- Multiple wire types and cable options

SEALED HOUSING • MULTIPLE WIRE/CABLE OPTIONS