

News release SSM Series

TOCOS Non-contact linear position sensor SSM series

Kanagawa, Japan-June. 2006-- Tokyo Cosmos Elec. announces the release of the compact Non-contact linear position sensor SSM series

Over the years, TOCOS has been supplying highly reliable linear position sensors. To meet the growing needs in the market for higher reliability and longer life of the sensors, we have performed R&D of non-contact linear position sensors.

With our own unique magnetic circuit design, we developed non-contact linear position sensing technology that brings custom-make sensors. With our own unique magnetic circuit design, we developed non-contact linear position sensing technology that brings custom-make sensors. Linear output Hall IC is used as a detecting component as well as already-developed non-contact angle sensors RSM12. There are several types of Hall ICs and choosing individual Hall IC types, requirements of low-cost, temperature range, rotational angle and output voltage range are optionally available.

TOCOS-established contacting type linear position sensor technology provides a simple structure to SSMseries. Because sensing element has no contacting devices, there will be no 'wear' through the use and assures long operating life compared to conventional contacting type sensors. With no electrical contact failure caused by corrosion gas, highly reliability can be gained. We bring lower-cost and higher reliability custom-make sensors into reality by its simple structure.

Features

- ◆ Non-contact, No electrical contact failure =>High reliability
- ◆ No sliding. No detecting components =>Long life
- ◆ Simple structures =>Low-cost
- ◆ Sensing range: Max. 30mm (+15mm)
- ◆ Sensors with magnetic shields are optionally available
- ◆ Choices of Hall ICs: Different type of Hall IC is optionally available upon customers requirements.

The sensors are designed for mainly custom-make requirements TOCOS offers customized sensor-installed packages. TOCOS performs tests and simulations based on experiences of variable resistors and position sensing technology. Optimum shape and magnetic circuitry are designed and we perform from sample production stage till tests, mass production.

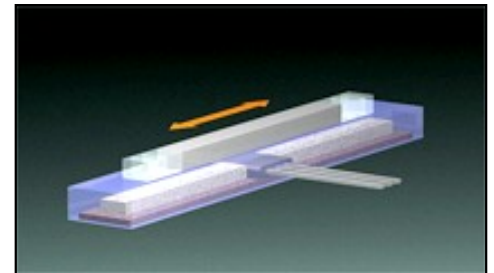
The products are non-contact sensors with no electrical contacts installed. Normally, linear position sensors require a structure with guides that work for accurate position detect by stabilizing movement over the track. As to this sensor, movable part travels over plate at low frictions. The plate works as an interposition as well as a spacer so that movable part does not slide over detecting components.

Because sensors are insensitive against vibration and shock, stable output can be gained.

Non-programmable Hall ICs (low-cost) for : A system that requires current position detection.

Compensation/setting are expected by later signal process. Programmable Hall ICs for : Absolute position detection. Users can optimize the performance at the unit already installed state.

SSM Series



Applications

- ◆ Angular sensor for automotive applications (Sideview mirror angle detection, Headlight angle detection etc.)
- ◆ Game machines
- ◆ Office automation equipment.
- ◆ Actuators.
- ◆ Valve close/open position sensor
- ◆ For other various applications where linear position sensing, [anti-vibration high reliability and longer operation life](#) are required.

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