

Honeywell Sensing and Control



SS94A1



SS94 Series General Purpose Ratiometric Linear Sensor; Vdc supply voltage

Actual product appearance may vary.

Features

• Single current sinking or current sourcing linear output

- Improved temperature stability
- Standard mounting centers

• Laser trimmed thin film and thick film

resistors minimize sensitivity variations and compensate for temperature variations

Potential Applications

- Ignition timing
- Power sensing
- Valve position
- Robotics control
- Current sensing
- Linear or rotary motion
 detection
- Length measurement
- Flow sensing
- FIOW Serising
- RPM sensing
- Security systems

Description

The SS9 utilizes a Hall effect integrated circuit chip which provides increased temperature stability and performance. Laser trimmed thick film resistors on the ceramic substrate and thin film resistors on the integrated circuit reduce null and gain shifts over temperature which results in consistent sensitivity from one device to the next.

APPLICATION CONSIDERATION: The output is clamped at the high end. Clamping voltage may be as low as 9 Vdc. The output will not exceed the clamping voltage regardless of field strength or power supply.

Product Specifications	
Product Type	Hall-Effect Linear Position Sensor
Package Style	Ceramic SIP
Supply Voltage	6.6 Vdc to 12.6 Vdc
Output Type	Sink/Source
Termination Type	PC Board
Magnetic Actuation Type	Ratiometric Linear
Operating Temperature Range	-40 °C to 125 °C [-40 ° F to 257 °F]
Linearity (% of Span)	-1.5 % max.
Availability	Global
Supply Current (max. @ 25 °C)	30 mA
Output Current (max.)	1 mA
Sensitivity @ 25 °C	5.0 mV \pm .1 mV/G
Temperature_Error_25_Null_Shift_2	± 0.02%
Temperature_Error_25 Sensitivity_1	± 0.02%
Magnetic Range (min.)	-50 mT to 50 mT [-500 G to 500 G]
Output Voltage Span (typ.)	5.0 Vdc @ 8 Vdc
Response Time (µs)	3 ms (typ.)
Vout (0 G @ 25 °C)	$4.00~Vdc~\pm~0.04~Vdc$
Series Name	SS94



RASTER