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~~Phuan Ong:~~

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Invention With Hall
Effect Sensor
Position controlled
linear actuator with

Arduino,

neodymium

magnet and hall

sensors KY-035

Analog Hall Effect

Sensor Hall Effect

Sensors

Hall Sensor A3144

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Tachometer (RPM

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Counter) Playing
with DRV5053
Linear Hall Effect
Sensor and Arduino
bargraph display

Linear hall effect
sensor circuit
diagram TI Precision
Labs - Op Amps:
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density Tom
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~~"Designing the~~
~~Make Noise Erbe~~

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Design Lecture
(Remastered)~~

How to use Hall
Effect Switches
PA-04-HS Linear
Actuator with Hall
Effect Sensor -
Product Overview

ACS712 Low-Noise
2100 VRMS Hall-
Effect Current
Sensor IC

TI's New DRV5x

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Hall Effect Sensor
Demo Video Low
Noise Linear Hall
Effect

Low Noise, Linear
Hall Effect Sensor
ICs with Analog
Output.

Description. New
applications for
linear output Hall-
effect devices,
such as
displacement,

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angular position,
and current
measurement,
require high

accuracy in
conjunction with
small package size.

The

Allegro® A1324,
A1325, and A1326
linear Hall-effect
sensor ICs are
designed
specifically to

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achieve both goals.

Sensor Ics With

Low Noise, Linear
Hall Effect Sensor
ICs with Analog
Output

Low-noise output
increases accuracy
Precise

recoverability after
temperature

cycling Ratiometric
rail-to-rail output

Wide ambient

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temperature range:

-40°C to 150°C

Immune to

mechanical stress

Solid-state

reliability Enhanced

EMC performance

for stringent

automotive

applications

A1324-A1325-A132

6: Low Noise,

Linear Hall Effect

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Sensor ICs

This ratiometric
Hall-effect sensor
IC provides a

voltage output that
is proportional to
the applied
magnetic field.

Sensitivity and
quiescent (zero
field) output
voltage are factory
programmed with
high resolution

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which provides for an accuracy of less than $\pm 1\%$, typical, over temperature.

The sensor IC incorporates a highly sensitive Hall element with a BiCMOS interface integrated circuit that employs a low noise, small-signal high-gain amplifier, as well as a low-

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impedance output stage ...

A1366 Low Noise, High Precision, Linear Hall Effect Sensor IC

Low Noise, Linear Hall Effect Sensor ICs with Analog Output.

Description. New applications for linear output Hall-

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Noise Linear

Hall-effect devices, such as displacement, angular position, and current measurement, require high accuracy in conjunction with small package size. The Allegro[®] A1324, A1325, and A1326 linear Hall-effect sensor ICs are

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Hall Effect
designed specifically to
achieve both goals.
Sensor Ics With
Og Output

Low Noise, Linear
Hall Effect Sensor
ICs with Analog
Output

Low-Noise, High-
Precision,
Programmable
Linear Hall-Effect
Sensor IC with
Regulated Supply,

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Hall Effect

Advanced
Temperature
Sensor ICs With
Compensation, and

High-Bandwidth
(240 kHz) Analog

Output The

Allegro[®] A1367

programmable
linear Hall-effect
current sensor IC

has been designed
to achieve high
accuracy and
resolution without

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compromising
bandwidth.

Sensor Ics With Og Output

Low-Noise, High-
Precision,
Programmable
Linear Hall-Effect ...
Low Noise, High
Precision, Factory-
Programmed Linear
Hall-Effect Sensor
IC . with Advanced
Temperature
Compensation and

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High Bandwidth
(120 kHz) Analog
Output. Functional
Block Diagram.

A1366. V+.

Dynamic Offset
Cancellation

EEPROM and

Control Logic. VCC

GND VOUT. Signal

Recovery To all

subcircuits. C.

BYPASS. C. L.

Temperature

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Sensor Sensitivity

Control Offset

Control

Og Output

Low Noise, High Precision, Factory-Programmed Linear Hall ...

DRV5053: Low frequency noise in linear Hall effect sensors. I am aiming to use a Hall effect sensor

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Hall Effect
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Og Output

to measure slow variations of permanent magnets due to temperature.

Therefore the sensor should not compensate for temperature fluctuations of the magnet such as the DRV5056 does. I have been testing two linear

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ratiometric hall
effect sensors
(among which
DRV5056), but I
keep suffering from
low frequency
noise from the Hall
sensor.

DRV5053: Low
frequency noise in
linear Hall effect
sensors ...

New Industry

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Products Low-
Noise, High-
Precision Linear
Hall-Effect Sensor
IC

Low-Noise, High-
Precision Linear
Hall-Effect Sensor
IC ...

Description. The
Allegro A1363
programmable
linear Hall-effect

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current sensor IC has been designed to achieve high accuracy and resolution without compromising bandwidth. The goal is achieved through new proprietary linearly interpolated temperature compensation technology that is

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programmed at the Allegro factory and provides sensitivity and offset that are virtually flat across the full operating temperature range.

A1363:
Programmable
Linear Hall Effect
Sensor IC
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Effect Sensor Ics
With Analog Output
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You won't find Dickens and Wilde in its archives; instead, there's a huge array of new

Low Noise Linear Hall Effect Sensor Ics With Analog Output
Hall-effect sensors are linear transducers. As a result, such

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sensors require a linear circuit for processing of the sensor output

signal. Such a linear circuit:
provides a constant driving current to the sensors,

Hall-effect sensor -
Wikipedia

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hall effect sensor

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ics with analog
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Subject: Low Noise
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Sensor Ics With
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Keywords: low, noise,
linear, hall, effect, s
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Hall Effect Sensor
Ics With Analog

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Output

The SS39ET/SS49E/
SS59ET Series Low-
cost Linear Hall-

effect Sensor ICs

are small, versatile

devices that are

operated by the

magnetic field from

a permanent

magnet or an

electromagnet. The

linear sourcing

output voltage is

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set by the supply voltage and varies in proportion to the strength of the magnetic field. The low voltage capability (as low as 2.7 Vdc) and reduced current consumption of only 6 mA (typical at 5 Vdc) help make this product energy efficient.

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SS39ET Linear and
Angle Sensor ICs -
Honeywell

The EQ433L is a low-noise linear Hall IC that combines an InAs high-sensitivity Hall element and an amplifier circuit using its own assembling technology. Key

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Features Magnetic sensor with built-in amplifier An analog signal

corresponding to the strength of the magnetic field is output, and the linearity is good.

EQ433L | Linear Hall Effect ICs | Magnetic Sensors

...

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a m m a b l e L i n e

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an Output Hall
Effect Sensor-
7 - Rev. 2.01 www.
semiment.com

Function

Description

Overview Power-On

Time: When the supply is ramped to its operating voltage, the device output requires a finite time to react to an input

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magnetic field.
Power-On Time is defined as the time it takes for the output voltage to begin responding to an

Linear Output Hall
Effect Sensor
Family High
Frequency and ...
Product Overview.
The SS49E is a low

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Hall Effect
Sensor ICs With
Og Output

cost linear hall
effect sensor IC in
3 pin TO-92
package. This small
and versatile
sensor is operated
by magnetic field
from permanent
magnet or an
electromagnet. It is
designed and
manufactured for
cost
competitiveness.

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The linear sourcing output voltage is set by supply voltage and varies in proportion to strength of magnetic field.

SS49E Honeywell,
Hall Effect Sensor,
Linear, 1.5 mA |
Farnell

The Allegro
A1101/2/3/4 and

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A1106 Hall-effect switches are produced with BiCMOS technology enabling fast power-on time and low-noise operation.

Device programming is performed after packaging, to ensure increased switch-point accuracy by

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eliminating offsets
that could be
induced by
package
stress. Unique Hall
element
geometries and low
offset amplifiers
minimise noise ...

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66a1794e1d57396

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Og Output