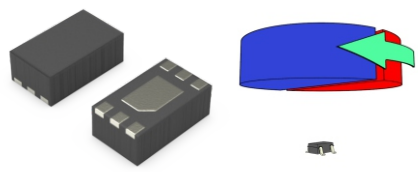
Perfecting the Art of Electronics
ALPS

NEW 2018

HGARAN008A

Non-Contact Magnetic Angle sensor Analog 2 phase Sin/Cos output

Small outline PKG and High-accuracy angle sensing



Package type: DFN1810
1.8 × 1.05 × 0.65 [mm]

Features

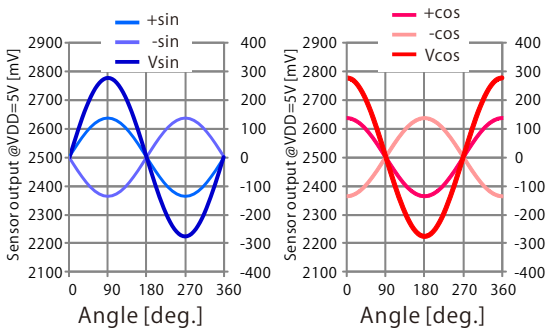
- Consumer equipment applicable.
- Small PKG（DFN 1.8 x 1.05 x t0.65mm）.
- Sin and Cos 2phase output from 1chip.
- Detect field angle only, no effect from field strength.
- Small thermal drift and wide operating Temp. range.
- Small hysteresis and wide operating field strength range.

Applications

- Motor rotating angle detection.
- Position detection.
- Non-contact operating input device.

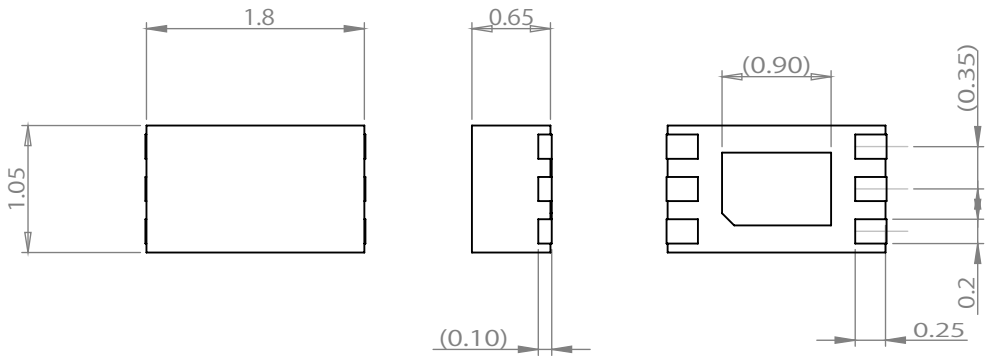
Typical Specifications

Item	Specification
Operating voltage (VDD)	5.5V max.
Operating magnetic field (Bop)	20mT ～ 60mT
Operating Temp. (Top)	-40 ～ 105℃
Output Offset Voltage (Voffset)	-20mV ～ 20mV @VDD=5V
Output amplitude Voltage (Vpp)	490mV ～ 610mV @VDD=5V
Sin-Cos phase Orthogonality (θ-ort)	87.5 ～ 92.5 °
Wave form distortion (Wd)	7mV Max. @VDD=5V
Angle Error ($\Delta\alpha$)	1deg Max. (with Voffset, Vpp,$f\theta$ ort compensation , without Wd compensation)



Dimensions

Unit : mm



HGAR Series web site

https://www.alps.com/prod/info/E/HTML/Sensor/Magnetic/HGAR/HGAR_list.html

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■Product Information URL http://www.alps.com/products/e/

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