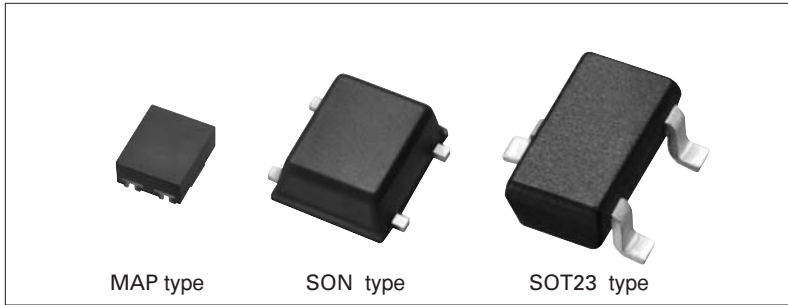


Magnetic Sensors Switching Output Type

HGDE□/HGDF□ Series

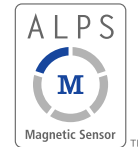
Various product lineup contributes set design flexibility . High precision, compact and low profile product based on magnetic sensing devices technologies.



MAP type

SON type

SOT23 type



Magnetic Sensor

Piezo Sensor

Resistive Sensor

Features

- Compact and low-profile (1.3×0.9×0.55mm for the MAP Type).
- Low current consumption (3.0μA at VDD=1.8V.).
- Various lineups (drive voltage, functions, operating magnetic field and package specifications).

Applications

- Detects Open and Close of lids and doors of any industrial equipments and amusement equipments.

Typical Specifications

Items	Specifications	
	HGDE□	HGDF□
Drive voltage	Typ. 1.8V (1.6V min. to 3.6V max.)	Typ. 5V (4.5V min. to 5.5V max.)
Current consumption	3μA Ave. (at VDD=1.8V)	Typ. 1.65mA (at VDD=5V)

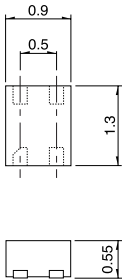
Product list

Drive voltage	Package specifications/Size	Function	Model No.	Operating magnetic field(Hon)
Typ.1.8V	MAP type 1.3×0.9×0.55mm	Single polarity/ Single output	HGDESM022A	2.0mT
			HGDESM032A	3.0mT
		Dual polarity/ Single output	HGDEPM022A	2.0mT
			HGDEPM032A	3.0mT
		Dual polarity/ Dual output	HGDEDM022A	2.0mT
			HGDEDM032A	3.0mT
	SON type 2.1×2.1×0.75mm	Single polarity/ Single output	HGDESN021A	2.0mT
			HGDESN031A	3.0mT
		Dual polarity/ Single output	HGDEPN021A	2.0mT
			HGDEPN031A	3.0mT
		Dual polarity/ Dual output	HGDEDN021A	2.0mT
			HGDEDN031A	3.0mT
Typ.5V	SOT23 type 2.9×2.8×1.1mm	Single polarity/ Single output	HGDEST021A	2.0mT
			HGDEST031A	3.0mT
		Dual polarity/ Single output	HGDEPT021A	2.0mT
			HGDEPT031A	3.0mT
	SON type 2.1×2.1×0.75mm	Single polarity/ Single output	HGDFSN021A	2.0mT
			HGDFSN031A	3.0mT
		Dual polarity/ Single output	HGDFPN021A	2.0mT
			HGDFPN031A	3.0mT
		Dual polarity/ Dual output	HGDFDN021A	2.0mT
			HGDFDN031A	3.0mT
Typ.5V	SOT23 type 2.9×2.8×1.1mm	Single polarity/ Single output	HGDFST021A	2.0mT
			HGDFST031A	3.0mT
		Dual polarity/ Single output	HGDFPT021A	2.0mT
			HGDFPT031A	3.0mT

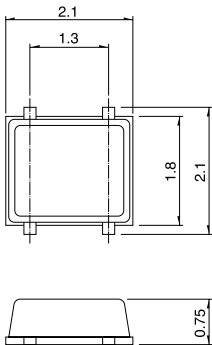
■ Dimensions

Unit:mm

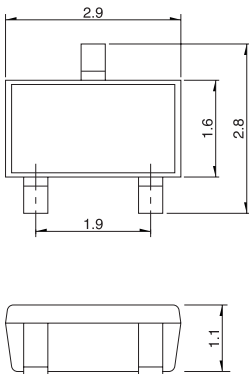
MAP type



SON type



SOT23 type



Magnetic
Sensor

Piezo
Sensor

Resistive
Sensor