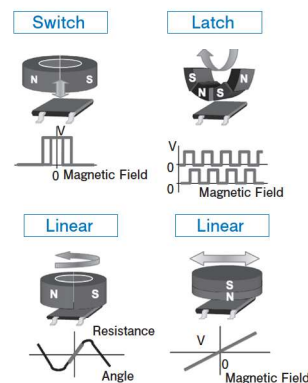





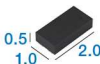

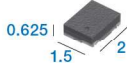



Magnetic Sensors

A variety of high-precision sensors supporting diverse motion and position detection.

Alps' high-precision magnetic sensors are based on advanced technologies in the areas of material development, thin film processes, design, and evaluation that were acquired through magnetic head development over the years. Capable of detecting a wide range of magnetic fields with high precision, these sensors improve layout flexibility inside electronic devices, helping to reduce the burden on set design. Space-saving designs, low power consumption and excellent operating temperature characteristics are other features. Alps provides a diverse range of magnetic sensors, such as switching output sensors, for detecting the opening and closing of doors or lids; latch output sensors, for detecting rotation of mechanical parts; and linear output sensors, for detecting linear motion, or the rotational speed and direction, of mechanical parts. The lineup also includes 90-degree phase difference two-phase output sensors supporting a range of different pole quantities and magnetization pitches with a single package.



Series	Type	Package specifications	Function	Drive voltage	Operating magnetic field
<div><div><div>HGDE</div><div></div></div><div><div>HGDF</div><div></div></div></div> <div>Unit:mm</div>	Switching	MAP (※1)	Single polarity / Single output Dual polarity / Single output Dual polarity / Dual output	1.6 to 3.6V	Hon 2.0mT (※2)
SOT23		Single polarity / Single output Dual polarity / Single output			
SOT23		Single polarity / Single output Dual polarity / Single output	4.5 to 5.5V		
<div><div><div>HGDVST</div><div></div></div><div>NEW</div></div>	Switching	SOT-23-5	Single polarity / Single output	3.0 to 30.0V	2mT
<div><div><div>HGPJPM</div><div></div></div><div>NEW</div></div>	Latch	MAP	1-phase alternating output	1.6 to 3.6V	Hon 1mT
<div><div><div>HGPJDM</div><div></div></div><div>NEW</div></div>	Encoder	MAP (2in1 type)	2-phase alternating output	1.6 to 3.6V	Hon 1mT
<div><div><div>HGPRDT</div><div></div></div><div></div></div>		SOT-23-5	2-phase alternating output (Flexible pitch)	3.0 to 30.0V	—
<div><div><div>HGARAM</div><div></div></div><div></div></div>	Linear	MAP	Analog output	1.5 to 5.5V	—
<div><div><div>HGARAP</div><div></div></div><div></div></div> <div><div><div>HGARAN</div><div></div></div><div>NEW</div></div>	Angle	MSOP-8	Analog 2-phase (SIN/COS)	5.5V max.	—
DFN					

※ 1 Some products can be provided halogen-free. Please contact an Alps sales representative for details.

※ 2 High and low sensitivity types are also available. Please contact an Alps sales representative for details.

