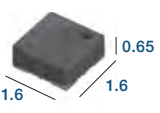
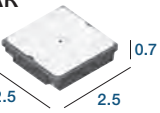
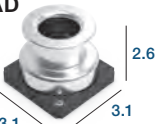

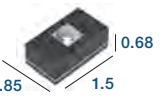
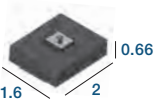
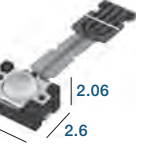


Sensors

Geomagnetic Sensors

Series	Type	Interface	Drive voltage	Operating magnetic field (resolution)
HSCD  Unit:mm	Electric compass (Surface mount)	I ² C	Analog: 1.7 to 3.6V Digital: 1.65 to AVDD	Total with 3-axis: 7.2mT 1-axis: 2.4mT (Resolution: 0.15μT)

Pressure Sensors

Series	Type	Operating pressure	Operating temperature	Output	Supply voltage	Supply current
HSPPAR  Unit:mm	Absolute pressure (Surface mount)	500 to 1100hPa	-20 to +85°C	Analog	0.55mA	-
HSPPAD  	Absolute pressure (Water-proof type)/ Surface mount	300 to 2100hPa (*1)	-40 to +85°C	Digital (I ² C)	1.7 to 3.6V	1.8μA (1Hz sampling)
	Absolute pressure (Water-proof type)	300 to 1100hPa				9.5μA (1Hz sampling)
HSFPAR NEW   	Load detection (Surface mount)	0 to 8N	-20 to +70°C	Analog	1.5 to 3.6V	-
	Load detection (Connector connection)	0 to 7N				

* 1 Products with other measurement ranges are also available. Please contact an Alps Alpine sales representative.