



AIC –Hall IC
沛亨半導體科技股份有限公司
2019

沛亨半導體股份有限公司

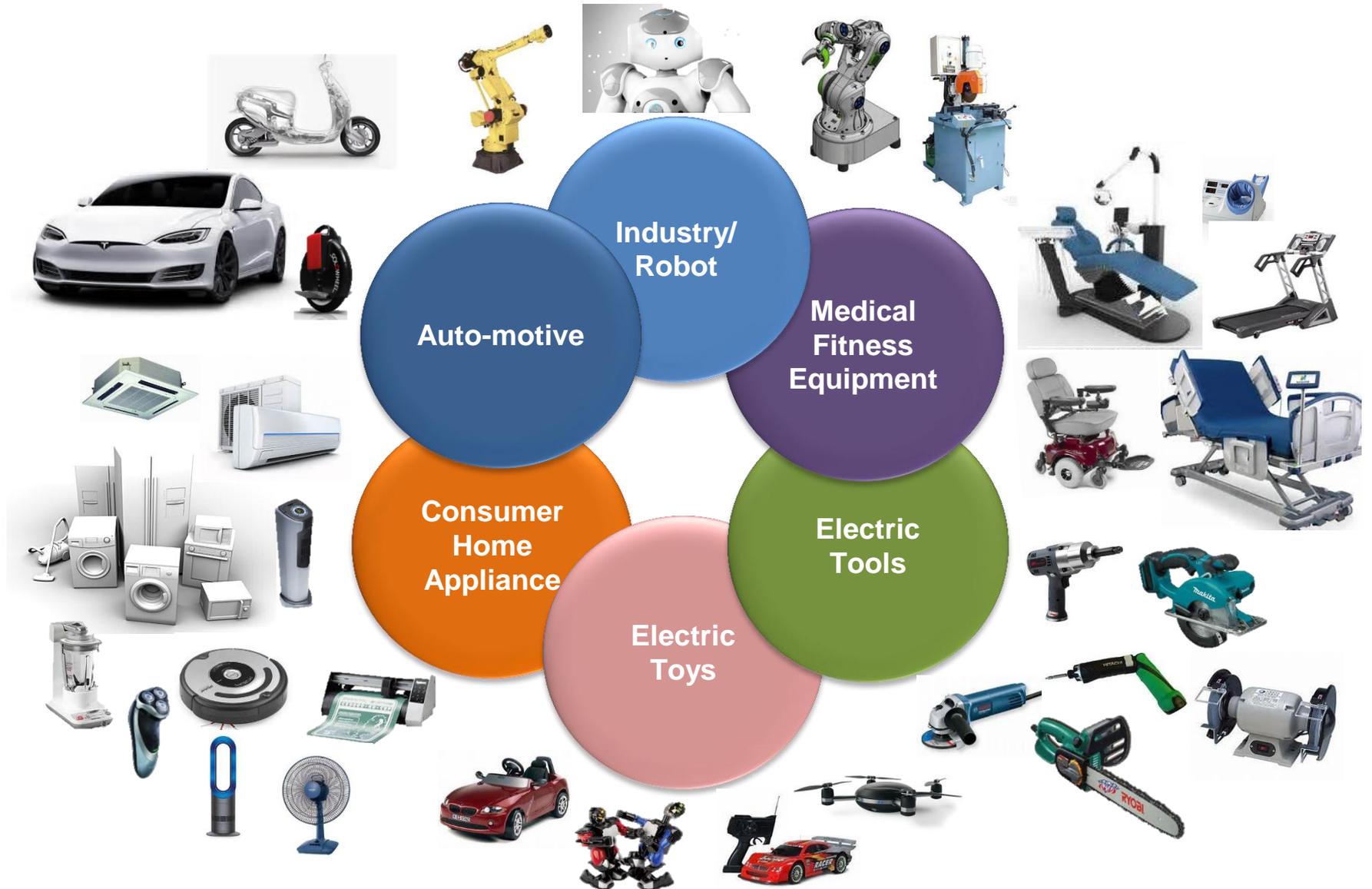


Marketing Division.
2019 H1



aic

Hall sensor Market application





aic

Hall Sensor Advantages & Application field

Hall IC Advantages : Contactless (brushless design), low power consumption and energy saving (in the case of electric drill BLDC motor As an example, the power consumption is about 1/5 of the original AC motor product, also reducing noise/ low cost/ small size/ long life/ high safety and reliability...

◆ **E-Bike, E-Car , Automobile :**

Speed detection, electric windows, Steering wheel, electronic igniter, electrical throttle ...

◆ **Home market :**

Refrigerator, washing machine, air conditioner, sweeper robot, juice machine, coffee grinder, power tools

◆ **Switch detection:**

Mobile phones, tablets, notebook computers, e-books, Electronic door locks, security systems, gaming keyboards, toy cars

◆ **Brushless DC fan:**

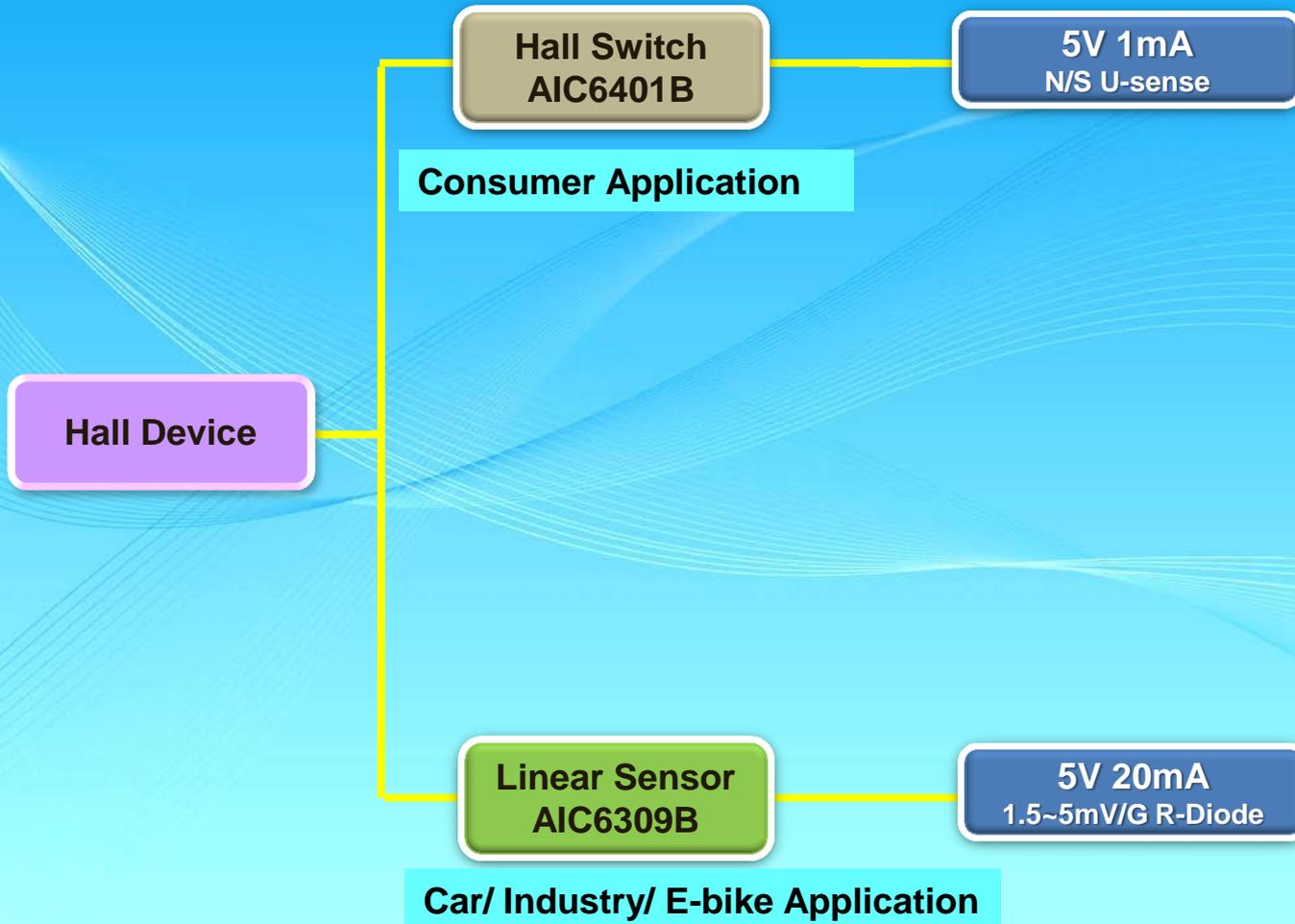
4~8CM fan, table fan, USB fan, mini fan, electronic mask, e-bike charging module, LED lamp Cooling fan, home DC energy saving fan, PC/VGA card/note computer cooling module.

◆ **Industrial Automation Control:**

Digital meters, current sensors, torsion bikes, industrial robots, electric car turns...



Hall Sensors - Latch/ Switch/ Linear





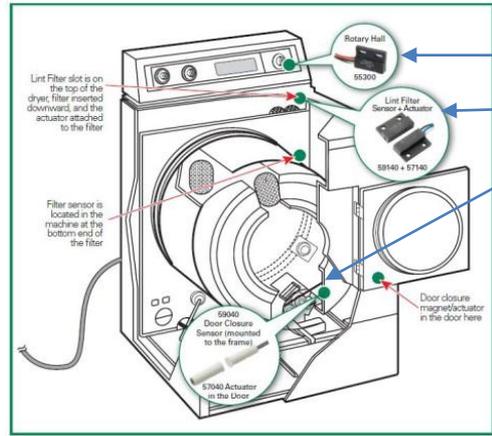
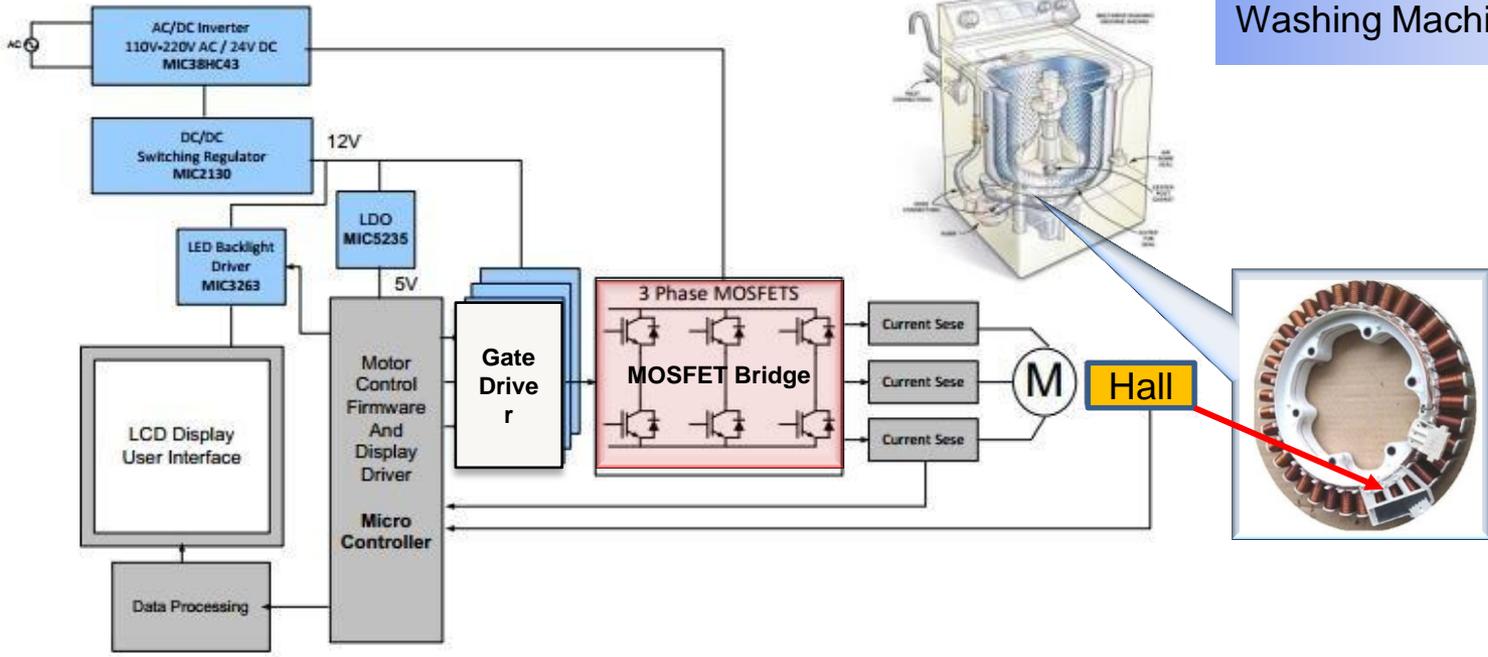
aic

Hall IC - Consumer Market device

Products	Function	Application	Market Application												
			Ev Car	E-bike	Air condi	Refriger	Wash-ing	DC Fan	Home app	E-Tool	Medical	Industry	Robot	OA	Toys
AIC6401B	Switch	Switch. Position	●	●	●	●	●	●	●	●	●	●	●	●	●
AIC6309B	Linear	Micro Sensing	●	●			●		●	●	●	●			●

Function	P/N	Electrical Characteristics							Features				Pkg Type	Competitor's P/N
		V _{IN}		I _{OUT} (mA)	B _{OP} (G)	B _{RP} (G)	B _{HYS} (G)	R _{DSON} (Ω)	FG	OTP	Auto Restart	Rev Diode		
		min.	max.											
Switch	AIC6401B	1.65	3.3	1	30/-30	20/-20	10	-					SOT23	AH180. AX8101. AZ8103
Linear	AIC6309B	2.7	5.5	20	1.5~10mV/G	-	20						SOT23 SIP-3L	A1302. A1308. UGN3503

Washing Machine



- ★ Rotary switch
- ★ Lint Filter
- ★ Door detect



Hall Switching Sensor



aic

Consumer Home Appliance Hall application

Others..

Refrigerator (冰箱)		Dehumidifier (除湿器)	OTR (微波炉)	Air conditioner (空调)
				

cooling fan		Air conditioner (空调)	Washing M/C (洗衣机)	
				

AIC6401B



Hall Switching Sensor

Application products

 Refrigerator	 Cocles boiler	 Air conditioner	 Dishwasher
---	--	--	---



aic

Consumer Home Appliance Hall application

Others..

Auger (碎冰机)	In-door (冰箱门板)	Auger (塑料产品)	Water purifier (净水器)	Breast pump (吸奶器压缩机)	Fitness (运动器材)

Application products

 Metering pump	 Refrigerator	 Breast pump	 Ball provider for training
 coating machine/Laminating machine	 Barbecued chicken	 Water purifier	 Coin exchanger

AIC6401B



Hall Switching
Sensor

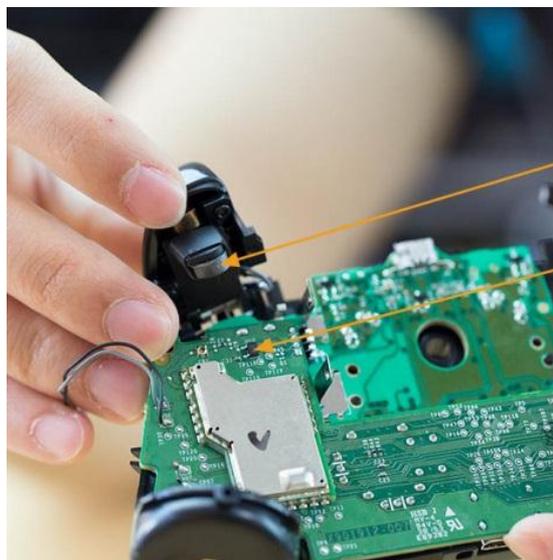


aic

Gaming Controller/Mobile/NB Hall application



Microsoft Xbox Gaming controller



Magnets

Linear Hall Sensor

AIC6309B

AIC6401B

Pkg : SOT23

SOT23 SOT553

AIC6401B

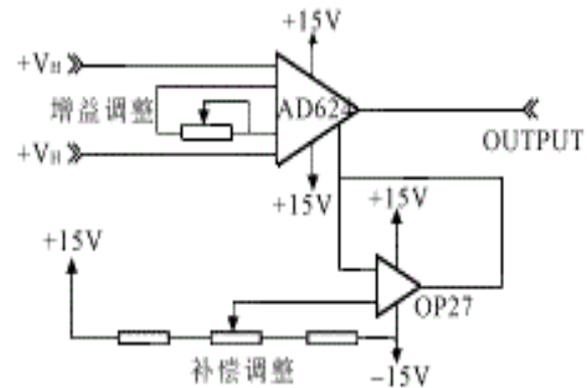
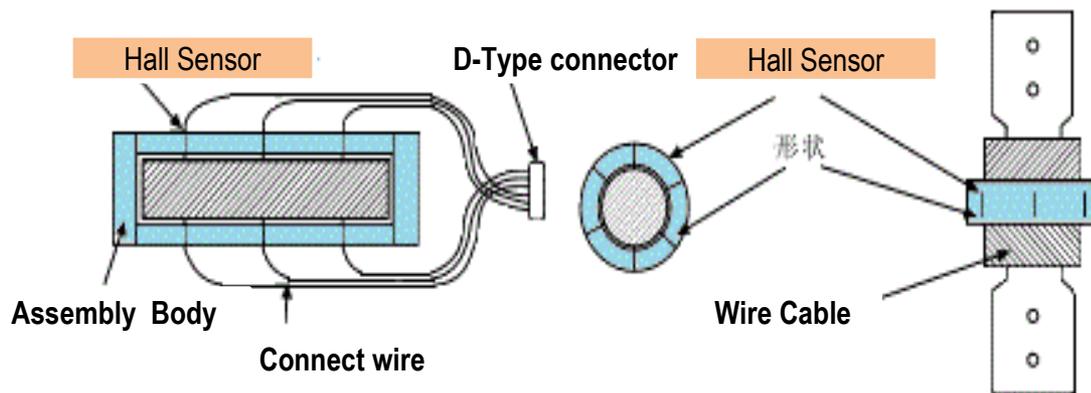
Hall Switch Sensor

AIC6309B

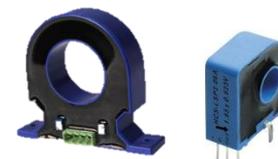
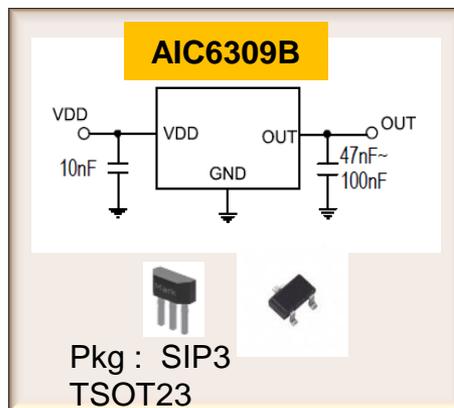
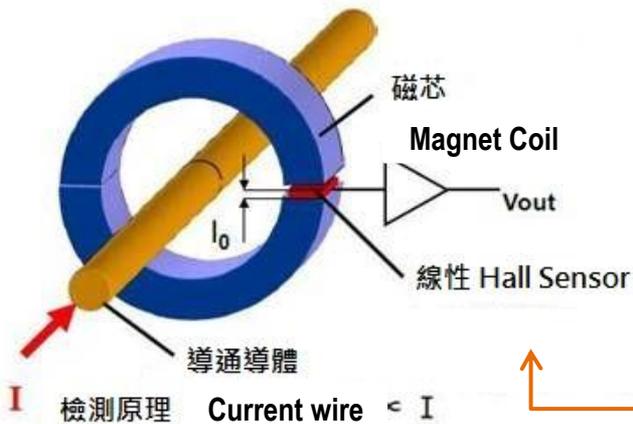
Hall Linear Sensor



Hall sensor module



Hall Current Sensor



Current Sensor modular



Current Digital Meter

Linear Hall sensor

- We continuous enhancement of service quality is maintained as we have been insist.
- We wish to keep a good supply relationships with customers and improve the competitiveness of products, to become the best partner of customers. .

