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Smart Sensing Creates Better Life !



CONTENTS

■ Company Profile

About Conntek	01
Company Core Competence	02

■ Product Descriptions

3D Linear Hall-effect Sensor ICs	05
High-speed High-precision Magnetic Angle Sensor ICs	08
Fluxgate Magnetic Sensor Signal Conditioning ICs for Leakage Current Measurement	09
High-sensitivity 3D Hall Switch/Latch ICs	10
Automotive Hall-effect Switch/Latch Sensor ICs	10
Linear Hall-effect Sensor ICs	11
Hall-effect Switch/Latch ICs	12
Nano-power TMR Magnetic Switch/Latch ICs	14
AMR Magnetic Switch ICs for Air Cylinder	15
Temperature Sensor ICs	16

CORE COMPETENCE

We know electronics circuit, structure and magnetic circuit designs.

Founded in 2016, Conntek Microelectronics Technology Co., Ltd. is a global leader in the field of high-tech integrated circuits (ICs), specializing in the design and manufacture of **advanced magnetic sensor ICs**. We are dedicated to enhancing technological capabilities and efficiencies across various industries, guided by our vision: "Smart Sensing Creates a Better Life!"

Innovative Magnetic Sensor IC Solutions:

- 3D Linear Hall-effect sensor ICs
- High-Speed High-Precision Magnetic Angle Sensor ICs
- High sensitivity 3D Hall Switch/Latch ICs
- Fluxgate Magnetic Sensor Signal Conditioning ICs for Leakage current measurement
- Nanopower TMR Magnetic Switch/Latch ICs
- AMR Magnetic Switch ICs for Air Cylinder
- Linear Hall-effect Sensor IC
- Zero-Drift Zero-Offset Operational Amplifier ICs
- Temperature sensor IC
- and more...

These pioneering products are essential for a wide range of applications, from intelligent IoT devices and photovoltaic energy systems to industrial automation and automotive technologies. Conntek's magnetic sensor ICs are renowned for their high performance, reliability, and the ability to operate under low power conditions.

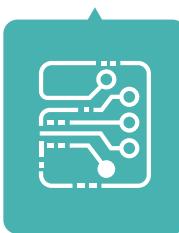
Leading-Edge Development and Manufacturing:

Conntek is equipped with the most comprehensive magnetic sensor technology capabilities worldwide. Our state-of-the-art design and manufacturing processes are spearheaded by a skilled team of professionals who graduated from some of the world's top universities such as Tsinghua University, Peking University, Delft University of Technology and EPFL and have worked at leading semiconductor companies such as NXP, Marvell, IBM and Qualcomm.

With nearly **100 authorized patents** and numerous industry firsts, such as the debut of the first **3D Hall Sensor IC**, Conntek is at the **forefront of magnetic sensor technology**. Our products, developed with proprietary intellectual property, are in mass production and have achieved significant sales success, demonstrating our commitment to innovation and quality.

Conntek Microelectronics Technology Co., Ltd. is driven to push the boundaries of what is possible with magnetic sensor IC technology, constantly innovating to provide solutions that advance global technological standards and improve life through intelligent sensing.

Join us on our mission to lead the development of the smart sensing technologies that power the future.



Circuit Design

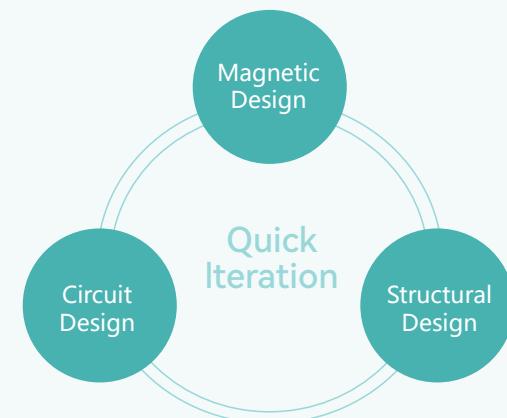


Magnetic Design



Structural Design

SOLUTION



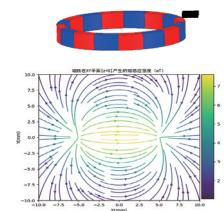
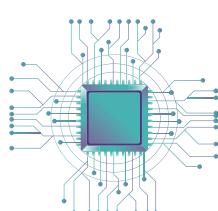
Magnetic sensor
and ASIC customization



PCB/Sensor module
structure design and
control software development



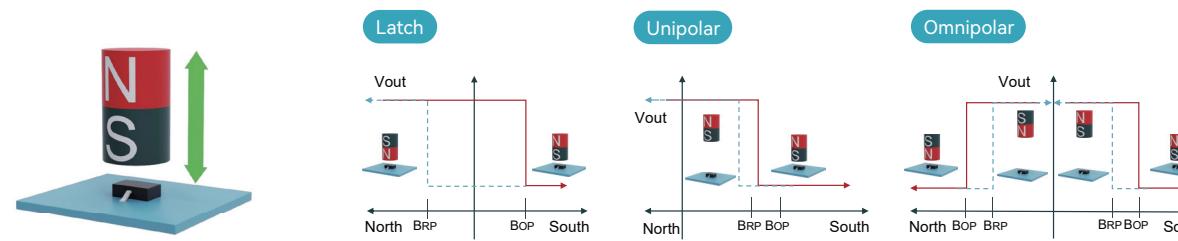
Magnetic circuit design/
Magnet selection/EM simulation/
EM shielding design



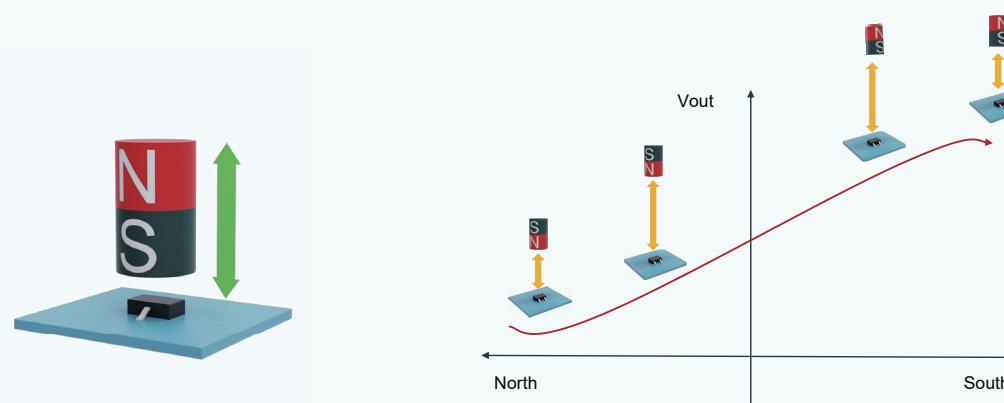
Fundamentals of Magnetic Sensors ICs

Conntek Core Competence

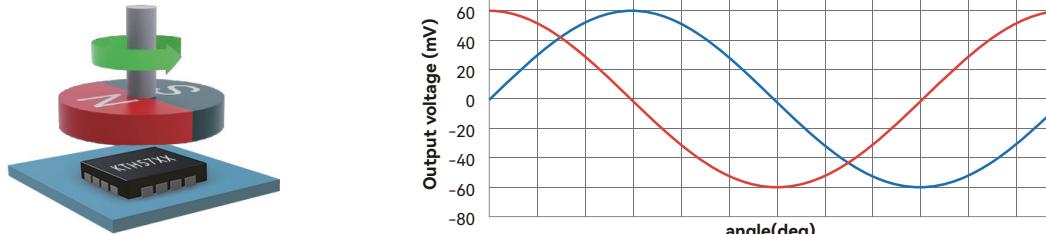
01 Magnetic Switch Sensor IC



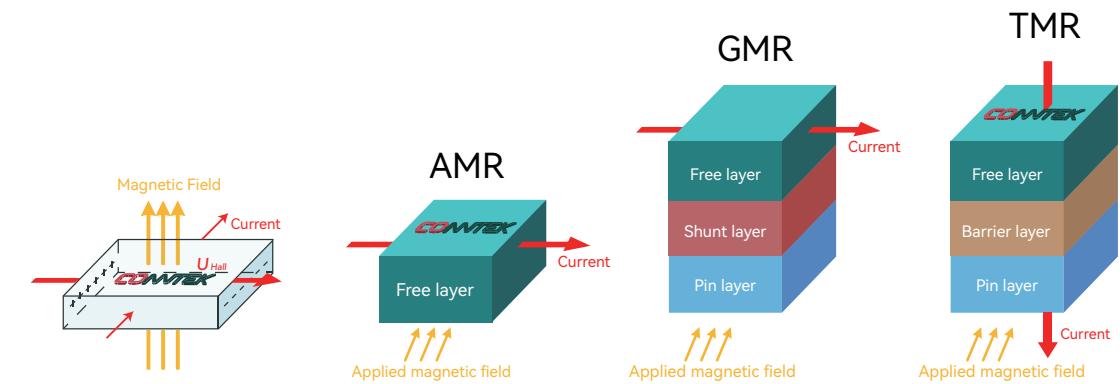
02 Magnetic Linear Sensor IC



03 Magnetic Angle Encoder IC



Different Magnetic Sensor Principles



Hall Effect

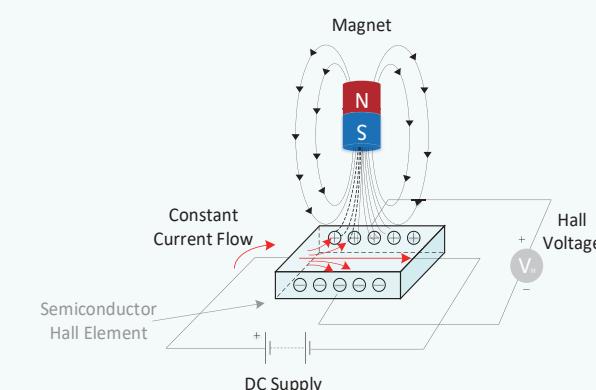
AMR

GMR

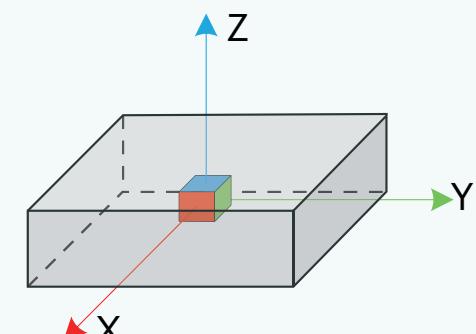
TMR

Sensitivity is increasing

Conntek Core Competence - 3D Hall Magnetic Sensing



Conventional planar Hall
senses only single-axis magnetic fields

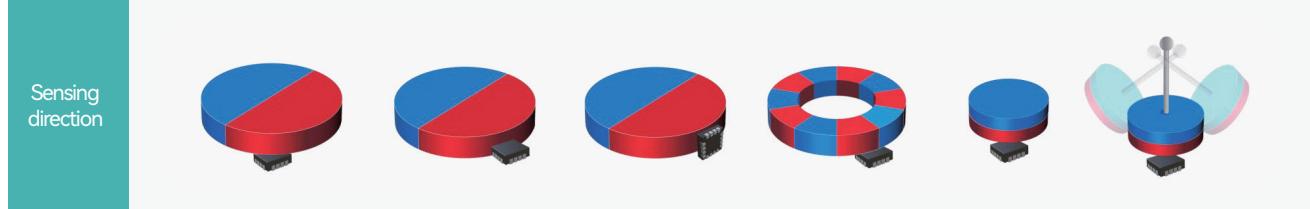


Conntek core technology
3D Hall magnetic sensing

Product Descriptions

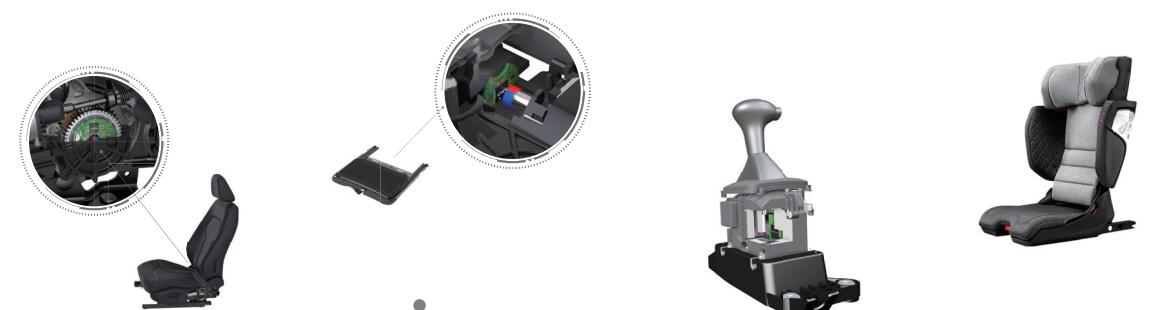
01 3D Linear Hall-effect Sensor ICs

Series	Magnet placement	Detection range	Operating voltage	Precision	Standby current consumption	Average current consumption	Measurement mode
KTH57XX	On-axis/off-axis	360°	2.8~5.5V	16 Bit	1.4uA	25.2uA@5Hz/ 113.7uA@25Hz	Continuous Sensing Mode/ Wake-up & Sleep Mode/ Single Conversion Mode
	Output mode	Magnetic induction	Magnetic field detection range	Operating frequency	Operating temperature	Package	
	I2C/SPI digital output	X,Y,Z axis	XY axis ±130mT Z axis ±80mT	1000Hz	-40~+125°C	QFN3*3/2*2.5	



Smart Traffic

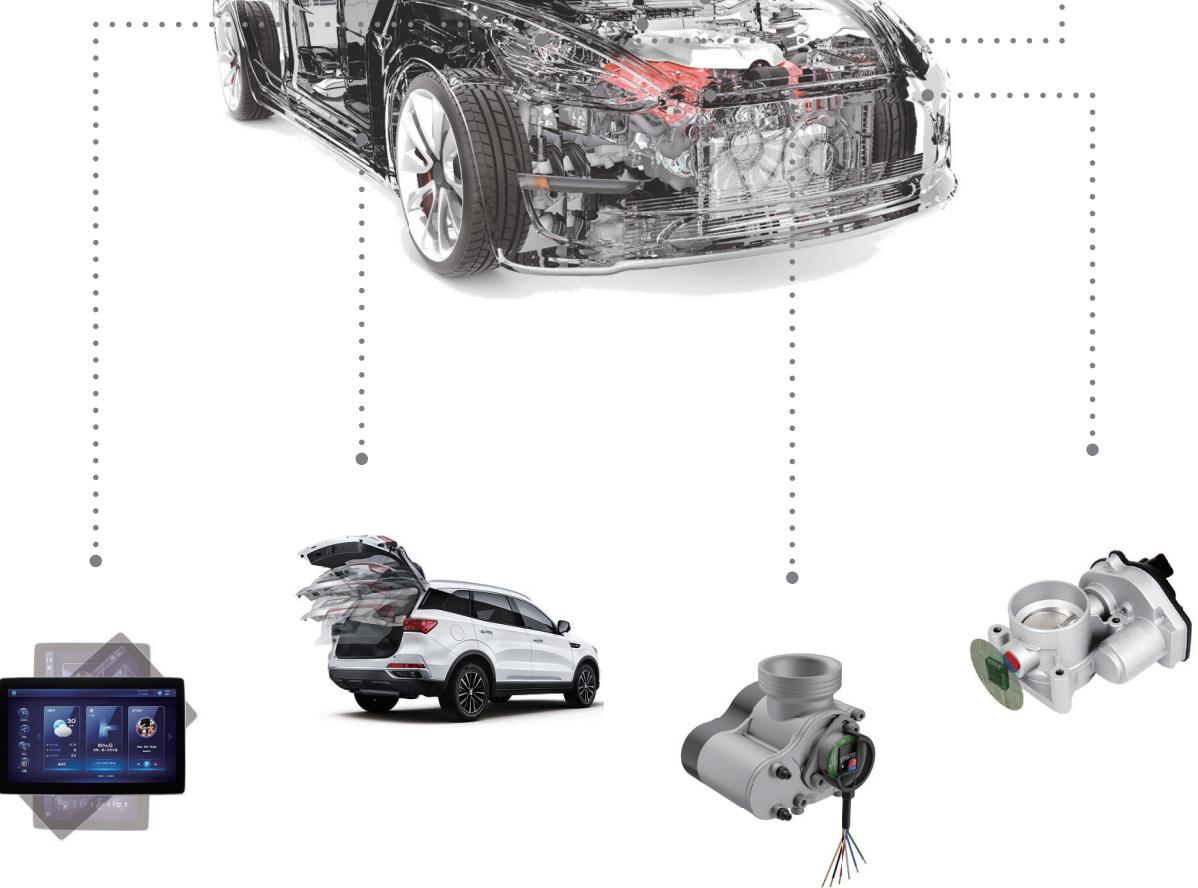
- Seat controls
- Sunroof
- Electronic shifter
- Electronic cockpit
- Car tablet
- Power tailgate
- Electronic throttle
- EGR valve



3D Hall Sensor Applications

3D Linear Hall-effect sensor ICs

- Drone Pan-Tilt
- PSP rockers
- Handheld Pan-Tilt
- Joysticks
- Wheelchair rockers
- Gamepads
- Flight simulators
- Mouses
- Drone rockers



IOT Equipment

3D Linear Hall-effect sensor ICs

- Robot joints
- Robot vacuum cleaners
- Companion robots
- Turnstiles
- Professional cameras
- High speed pan tilt
- Smart toys



Intelligent Wearables

3D Linear Hall-effect sensor ICs

- Volume control knobs
- Smart watches



Smart Home Appliances

3D Linear Hall-effect sensor ICs

- Coffee machines
- Intelligent closetools
- Gas stoves
- Washing machines
- Smart cooking machines



Consumer Electronics

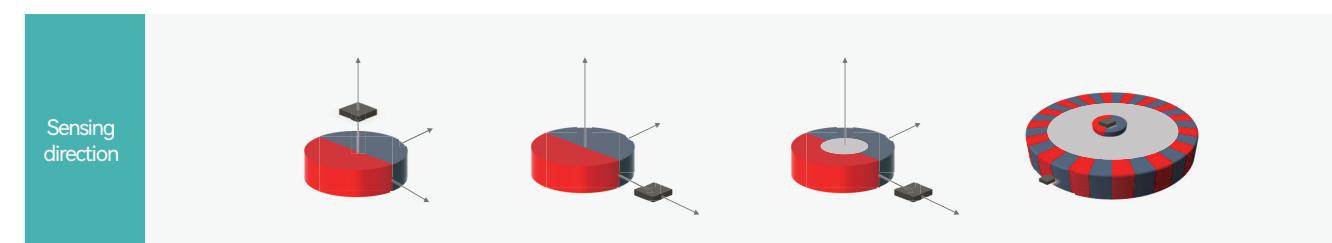
3D Linear Hall-effect sensor ICs

- Joysticks
- Notebooks
- Mouses
- Flip cameras
- Keyboards
- Foldable phones

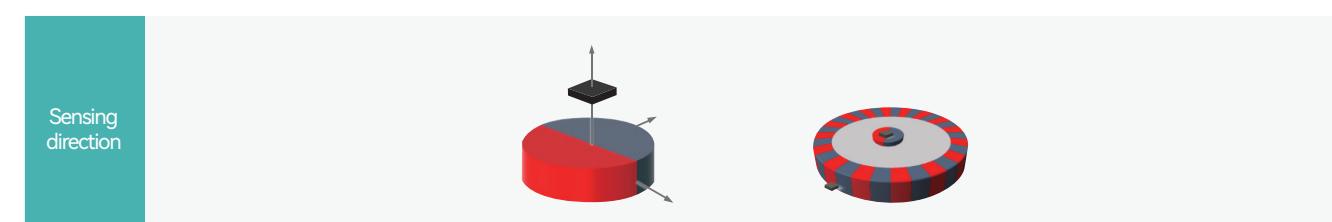


02 High-speed High-precision Magnetic Angle Sensor ICs

Series	Magnet placement	Detection range	Operating voltage	Noise	INL	Operating current	Rotational speed
KTH78XX	On-axis/off-axis	360°	3.3V / 5V	0.004MS-0.24°	±0.35°	11.6mA	120,000 rpm
	Output mode	Temperature drift		Magnetic field detection range	Start-Up time	Operating temperature	Package
	ABZ/UVW/PWM/SPI/SSI output	0.002° / °C		30~150mT	1ms	-40~+125 °C	QFN3*3-16L SOP-8



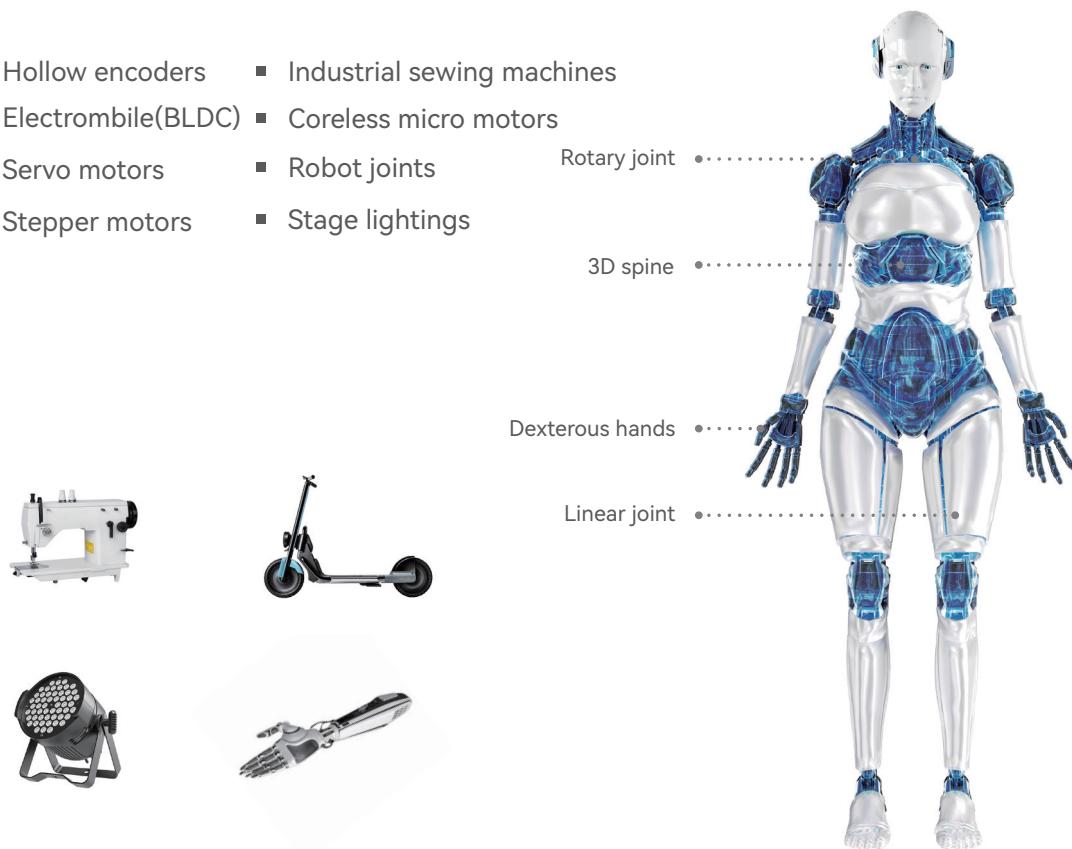
Series	Magnet placement	Detection range	Operating voltage	Noise	INL	Operating current	Rotational speed
KTH58XX	On-axis/off-axis	360°	3~5.5V	0.01	±0.02°	40mA	180,000 rpm
	Output mode	Feature		Magnetic field detection range	Start-Up time	Operating temperature	Package
	ABZ/UVW/PWM/SPI	Supports multiple pairs of poles (1-4096), supports one click self calibration		10~150mT	23ms	-40~+125 °C	HFBP5*5-32L



Automation and Robotics

High-Speed High-Precision Magnetic Angle Sensor ICs

- Hollow encoders
- Industrial sewing machines
- Electromobile(BLDC)
- Coreless micro motors
- Servo motors
- Robot joints
- Stepper motors
- Stage lightings



03 Fluxgate Magnetic Sensor Signal Conditioning ICs for Leakage Current Measurement

Series	Vref	Min resolution	Operating voltage	Average current consumption	Band-width	Feature	Operating temperature	Operating temperature	Package
KTD1100-QNX	2.495V~2.505V	0.1mA	4.75~5.25V	12mA	780Hz	High sensitivity 1mV/mA	Analog Signal	-40~105°C	QFNWB3*3 24L

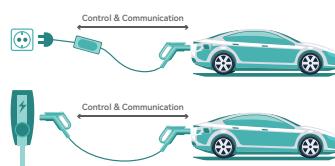
Applications

- EV charging stations
- Photovoltaic inverters
- ELCBs



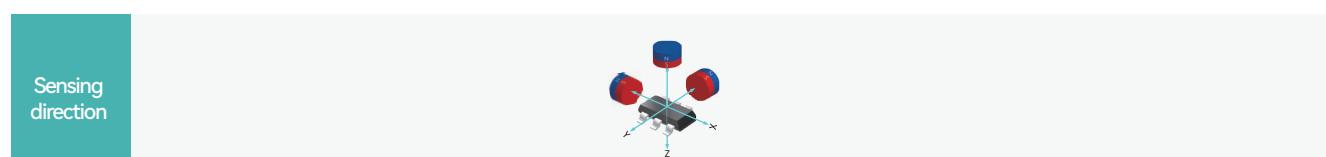
Fluxgate Magnetic Sensor Signal Conditioning ICs for Leakage Current Measurement

Standards clearance:
GB/T 22794
GB/T 50178
IEC 62955
IEC 62752



04 High Sensitivity 3D Hall Switch/Latch ICs

Series	Product name	Type	Operating voltage	Average current consumption	Operating frequency	BOP(Gs)	BRP(Gs)	Output interface	Operating temperature	Package
KTH46XX	KTH4603AA-STx	Omnipolar	2.5~5.5V	5.5uA@3.3V	2.5Hz	25/-25	12.5/-12.5	Open-drain output	-40~125°C	SOT-23-3L SOT-23-6L
	KTH4603AB-STx	Omnipolar	2.5~5.5V	8.0uA@3.3V	5.0Hz	25/-25	12.5/-12.5	Open-drain output	-40~125°C	SOT-23-3L SOT-23-6L



Applications for Utility and Automotive

- Electricity meter anti-tampering
- Car sunroofs
- Water meters



High sensitivity 3D Hall Switch/Latch ICs



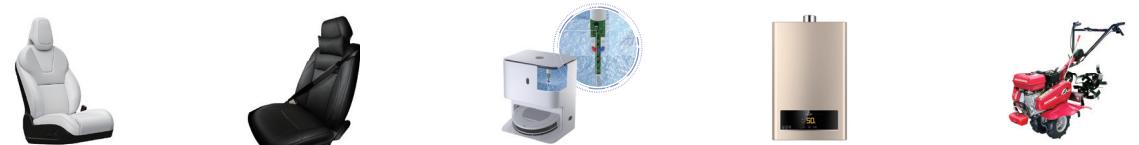
05 Automotive Hall-effect Switch/Latch Sensor ICs

Series	Product name	Type	Operating voltage	Average current consumption	Operating frequency	BOP(Gs)	BRP(Gs)	Output interface	Operating temperature	Package
KTH2502 (AUTOMOTIVE)	KTH2502QA	Latch	2.7~32V	2.7mA	30KHz	15	-15	Open-drain output	-40~150°C	SOT-23-3L TO-92S
	KTH2502QB					30	-30			
	KTH2502QC					60	-60			
KTH2582 (INDUSTRIAL)	KTH2582NA	Latch	2.7~32V	2.7mA	30KHz	15	-15	Open-drain output	-40~125°C	SOT-23-3L TO-92S
	KTH2582NB					30	-30			
	KTH2582NC					60	-60			



Applications in Smart Traffic and Home Appliances

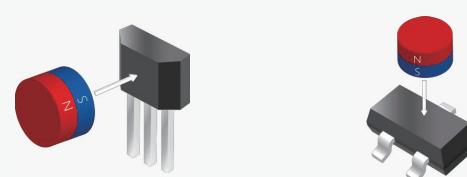
- Safety belts
- Water heaters
- Car seats
- Toilet liquid level
- Mowers



Automotive Hall Effect Switch/Latch Sensor ICs

06 Linear Hall-effect Sensor ICs

Series	Product name	Type	Operating voltage	Average current consumption	Sensitivity	Magnetic field range	Output interface	Operating temperature	Package
KTH5641	KTH5641A1	Linear	2.8~6.0V	3.3mA@5V	A1:1.5mV	A1: \pm 1600GS	Linear analog output	-40~125°C	SOT-23-3L TO-92S
	KTH5641A2				A2:2.0mV	A2: \pm 1200GS			
	KTH5641A3				A3:2.5mV	A3: \pm 960GS			
	KTH5641A4				A4:3.0mV	A4: \pm 800GS			
KTH5641A1	KTH5641A1	Linear	2.8~6.0V	3.3mA@5V	1.5mV/Gs 2.0mV/Gs 2.5mV/Gs 3.0mV/Gs	1.5mV/Gs 2.0mV/Gs 2.5mV/Gs 3.0mV/Gs	Linear analog output	-40~125°C	DFN1616-6L
KTH5642	KTH5642A1	Linear	2.8~6.0V	3.3mA@5V	A1:5.0mV	A1: \pm 480GS	Linear analog output	-40~125°C	SOT-23-3L TO-92S
	KTH5642A2				A2:9.0mV	A2: \pm 266GS			
KTH5643	KTH5643A1	Linear	2.8~6.0V	3.3mA@5V	A1:4.0mV	A1: \pm 1600GS	Linear analog output	-40~125°C	SOT-23-3L TO-92S
	KTH5643A2				A2:7.0mV	A2: \pm 343GS			
	KTH5643A3				A3:10mV	A3: \pm 240GS			
	KTH5643A4				A4:13mV	A4: \pm 185GS			



Applications of Hall-effect Sensors

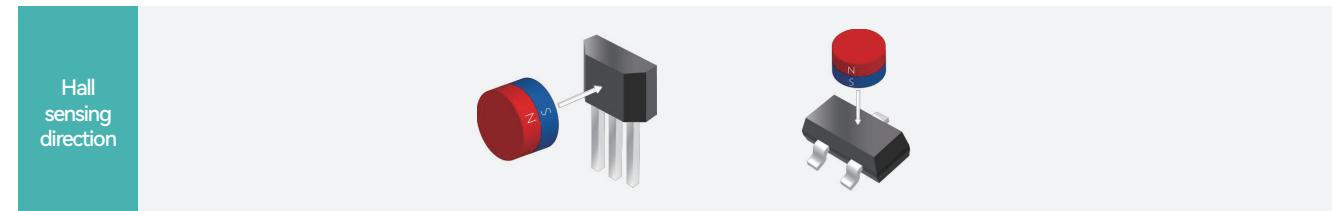
Linear Hall-effect Sensor IC

- Power Tools - for precise speed and position control
- Automotive Applications - for accurate sensing in vehicles
- Industrial Equipments - for robust detection and control in machinery



07 Hall-effect Switch/Latch ICs

Series	Product name	Type	Operating voltage	Average current consumption	Operating frequency	BOP(Gs)	BRP(Gs)	Output interface	Operating temperature	Package	
KTH1601	KTH1601TH	Omnipolar	1.6~5.5V	3.3 μ A@1.8V	20Hz	46/-46	34/-34	CMOS	-40~85°C	SOT-23-3L SOT-553 TO-92S	
	KTH1601SH			1.6 μ A@1.8V	5Hz						
	KTH1601TL			3.3 μ A@1.8V	20Hz						
	KTH1601SL			1.6 μ A@1.8V	5Hz						
KTH1611	KTH1611TH	S pole	1.6~5.5V	3.3 μ A@1.8V	20Hz	46	34	CMOS	-40~85°C	SOT-23-3L SOT-553 TO-92S	
	KTH1611SH			1.6 μ A@1.8V	5Hz						
	KTH1611TL			3.3 μ A@1.8V	20Hz						
	KTH1611SL			1.6 μ A@1.8V	5Hz						
KTH1621	KTH1621TH	N pole	1.6~5.5V	3.3 μ A@1.8V	20Hz	-46	-34	CMOS	-40~85°C	HFBP 1010-4L	
	KTH1621SH			1.6 μ A@1.8V	5Hz						
	KTH1621TL			3.3 μ A@1.8V	20Hz						
	KTH1621SL			1.6 μ A@1.8V	5Hz						
KTH1604	KTH1604TH	Dual outputs unipolar	1.6~5.5V	3.3 μ A@1.8V	20Hz	46/-46	34/-34	CMOS	-40~85°C	HFBP 1010-4L	
	KTH1604SH			1.6 μ A@1.8V	5Hz						
	KTH1604TL			3.3 μ A@1.8V	20Hz						
	KTH1604SL			1.6 μ A@1.8V	5Hz						
KTH1631	KTH1631FU	Latch	1.8~5.5V	2.25mA@1.8V	40KHz	-20/20	20/-20	CMOS	-40~85°C	SOT-23-3L TO-92S	
	KTH1605p	KTH1605PL	Omnipolar	1.6~5.5V	700 μ A@1.8V	5KHz	33/-33	23/-23	CMOS	-40~85°C	SOT-23-3L
	KTH1531(Industrial)	KTH1531FU	Latch	1.8~5.5V	2.25mA@1.8V	40KHz	-22/22	22/-22	CMOS	-40~125°C	SOT-23-3L TO-92S
	KTH1501(Industrial)	KTH1501SL	Omnipolar	1.6~5.5V	1.6 μ A@1.8V	5Hz	33/-33	23/-23	CMOS	-40~125°C	SOT-23-3L
KTH1642	KTH1642	Omnipolar	1.8~5.5V	10 μ A@3.0V	14.29Hz (70ms)	6~60/-60~-6	5~59/-59~-5	Open-drain output	-40~85°C	SOT-23-3L TSOT-23 TO-92S QFN2020-3L	
	KTH1701FH	Omnipolar	1.8~5.5V	10.4 μ A@1.8V	500Hz	48/-48	28/-28	CMOS	-40~85°C	SOT-23-3L TO-92S	
	KTH1701TH			2.4 μ A@1.8V	100Hz						
	KTH1701SH			0.9 μ A@1.8V	25Hz						
KTH1701	KTH1701FL			10.4 μ A@1.8V	500Hz	36/-36	20/-20	CMOS	-40~85°C	SOT-23-3L TO-92S	
	KTH1701TL			2.4 μ A@1.8V	100Hz						
	KTH1701SL			0.9 μ A@1.8V	25Hz						
	KTH1701FU			10.4 μ A@1.8V	500Hz						
KTH1701TU	KTH1701TU			2.4 μ A@1.8V	100Hz	26/-26	14/-14	CMOS	-40~85°C		
	KTH1701SU			0.9 μ A@1.8V	25Hz						
KTH1711	KTH1711TH	S pole	1.8~5.5V	2.4 μ A@1.8V	100Hz	50	35	CMOS	-40~85°C	SOT-23-3L TO-92S	
KTH1721	KTH1721TH	N pole	1.8~5.5V	2.4 μ A@1.8V	100Hz	-50	-35	CMOS	-40~85°C		
KTH1722	KTH1722CC	N pole	1.8~5.5V	2.25mA@1.8V	40kHz	-125	-90	Open-drain output	-40~85°C	SOT-23-3L	



High Voltage Applications

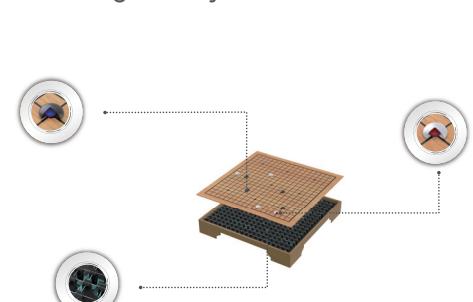
- Collision detection
- TWS earbuds
- Smart home
- Customer Safety
- Portable devices
- Comfort systems



Hall-effect Switch/Latch ICs

Healthy Industry Applications

- Energy management
- Automation systems
- Navigation systems
- Game systems
- Robotics



Hall-effect Switch/Latch ICs

Home Applications

- Wheel sensors
- Door sensors



Hall-effect Switch/Latch ICs

08 Nano-power TMR Magnetic Switch/Latch ICs

Series	Product name	Type	Operating voltage	Average current consumption	Operating frequency	BOP(Gs)	BRP(Gs)	Output interface	Operating temperature	Package
KTM1301	KTM1301TA	Omnipolar	1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±45	±36	CMOS	-40~125°C	SOT-23-3L TO-92S
	KTM1301SA		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±30	±21	CMOS		
	KTM1301TB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±18	±12	CMOS		
	KTM1301SB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±9	±6	CMOS		
	KTM1301TC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±7	±4	CMOS		
	KTM1301SC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	45	36	CMOS		
	KTM1301SD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	30	21	CMOS		
	KTM1301TE		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	18	12	CMOS		
	KTM1301SE		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	9	6	CMOS		
KTM1311	KTM1311TA	S pole	1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	45	36	CMOS	-40~125°C	SOT-23-3L TO-92S
	KTM1311SA		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	30	21	CMOS		
	KTM1311TB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	18	12	CMOS		
	KTM1311SB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	9	6	CMOS		
	KTM1311TC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-45	-36	CMOS		
	KTM1311SC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-30	-21	CMOS		
	KTM1311SD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-18	-12	CMOS		
	KTM1311TD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-9	-6	CMOS		
	KTM1311SD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	45	45	CMOS		
KTM1321	KTM1321TA	N pole	1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	30	-21	CMOS	-40~125°C	SOT-23-3L TO-92S
	KTM1321SA		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-18	-12	CMOS		
	KTM1321TB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-9	-6	CMOS		
	KTM1321SB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-45	-36	CMOS		
	KTM1321TC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-30	-21	CMOS		
	KTM1321SC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-18	-12	CMOS		
	KTM1321TD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-9	-6	CMOS		
	KTM1321SD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	45	45	CMOS		
	KTM1321TE		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	30	-30	CMOS		
KTM1331	KTM1331TA	Latch	1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	17	-17	CMOS	-40~125°C	SOT-23-3L TO-92S
	KTM1331SA		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	9	-9	CMOS		
	KTM1331TB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	5	-5	CMOS		
	KTM1331SB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-45	-36	CMOS		
	KTM1331TC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-30	-21	CMOS		
	KTM1331SC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-18	-12	CMOS		
	KTM1331TD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	-9	-6	CMOS		
	KTM1331SD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	45	45	CMOS		
	KTM1331TE		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	30	-30	CMOS		
KTM1302	KTM1302TA	Omnipolar	1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±45	±36	Open-drain output	-40~125°C	SOT-23-3L TO-92S
	KTM1302SA		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±30	±21	Open-drain output		
	KTM1302TB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±18	±12	Open-drain output		
	KTM1302SB		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±9	±6	Open-drain output		
	KTM1302TC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±7	±4	Open-drain output		
	KTM1302SC		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±30	±21	CMOS		
	KTM1302TD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±9	±6	CMOS		
	KTM1302SD		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±7	±4	CMOS		
	KTM1302TE		1.8~5.5V	1.9μA@3.0V 160nA@3V	5000Hz 50Hz	±7	±4	CMOS		
KTM1304	KTM1304SB	Omnipolar	1.8~5.5V	160nA@3V	50Hz	±30	±21	CMOS	-40~125°C	DFN2*2-3L
	KTM1304SD		1.8~5.5V	160nA@3V	50Hz	±9	±6	CMOS		
	KTM1304SE		1.8~5.5V	160nA@3V	50Hz	±7	±4	CMOS		

Home Applications

- Electric meters
- Smart locks
- Water meters



Nano-power TMR Magnetic Switch/Latch ICs

Industrial Applications

- Multi-function pens
- Portable scanners
- Security locks



Nano-power TMR Magnetic Switch/Latch ICs

Consumer Electronics

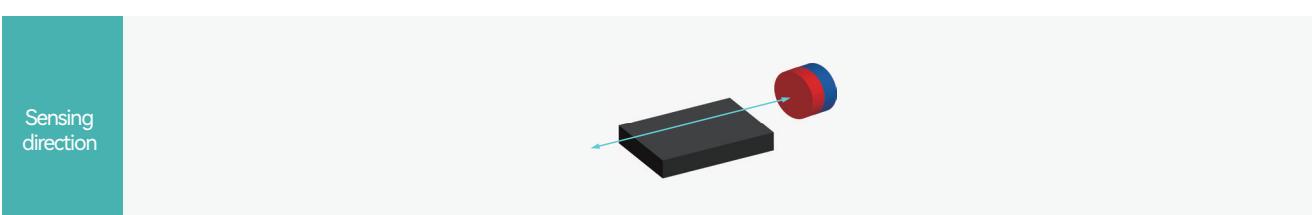
- Smart faucets
- Security cameras



Nano-power TMR Magnetic Switch/Latch ICs

09 AMR Magnetic Switch ICs for Air Cylinder

Series	Product name	Type	Operating voltage	Average current consumption	Operating frequency	BOP(Gs)	BRP(Gs)	Output interface	Operating temperature	Package
KTM280X	KTM2801	Omni	3~32V	70uA	4KHz	± 18	± 16	Open-drain output	-40~105°C	HFBP2*3-6L
	KTM2802									



Applications

- High-voltage cylinder position detection sensors



AMR Magnetic Switch ICs for Air Cylinder

10 Zero-Drift Zero-Offset Operational Amplifier ICs

Series	Product name	Channel	Supply voltage (VCC)	Input offset voltage (VOS)	Gain-bandwidth product (GBW)	Offset voltage drift over temperature (dVos/dT)	Voltage noise (f = 0.1Hz ~ 10Hz)	Slew rate (SR)	Input bias current (IB)	
KTAX333	KTA2333-MP8	Single or dual	1.8V-5.5V	$2\mu V(TYP)$ $10\mu V(MAX)$	350KHz	$0.02\mu V/^\circ C$	1.1 μVPP	$0.16V/\mu s$	$+100pA$	
	KTA2333-SP8									
	KTA333-ST5									
Input offset current (IOS)	Input offset current (IOS)	Quiescent current consumption (CMRR)	Power Supply rejection ratio (PSRR)	Open-loop gain (AOL)	Rail-to-Rail I/O	Temperature range	Package		MSOP-88(Dual channel) SOP-88(Dual channel) SOT23-58(Dual channel)	
$\pm 120pA$	30 μA	120dB	1 $\mu V/V$	120dB	IN,OUT	-40~+125 °C				

Instruments and Apparatus

- Temperature sensors
- Humidity sensors
- Air quality detectors



Zero-Drift Zero-Offset Operational Amplifier ICs

Signal Detection Applications

- Air pressure sensors
- Torque sensors
- Gas stove temperature detection



Zero-Drift Zero-Offset Operational Amplifier ICs

11 Temperature Sensor ICs

Series	Temp accuracy	Temp resolution	Operating voltage	Average current consumption	Standby current consumption	Feature	Interface type	Operating temperature	Package
KTP112	$\pm 0.5^\circ C$	0.0078°C (16 bits)	1.8~5.5V	5uA@1Hz	200nA	Programmable temperature alert limits	I2C,SMBus	-40~125°C	DFN2*2-6L

Applications

- Thermometers
- PC docks
- Projection equipment
- Mobile devices
- Power converters



Temperature sensor ICs