



PRODUCT MANUAL

2025 V1.0

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QUALIFICATIONS



Quality management system

The quality control process is carried out in accordance with ISO 9001 standards, with the capability and level to obtain market access qualifications, rich accumulation of core technology and processes, processes that can be solidified, and sufficient talent reserve for rapid replication of production capabilities.

Perfect product service system

Familiar with the application scenarios of sensors in various fields such as new energy, power and artificial intelligence. It can help the engineering and technical personnel of customers to achieve seamless docking of product performance and product selection, and provide customers with the most suitable sensors and solutions.



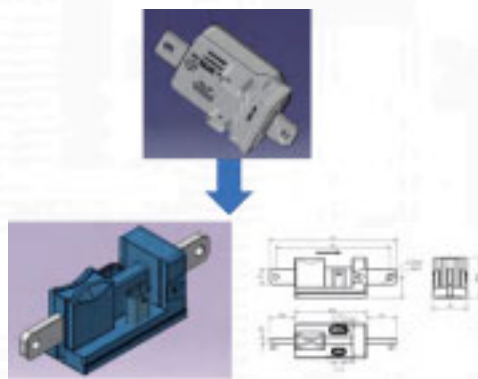
Complete custom R&D system

Quick response to customers' special customization requirements, with leading technology and processes in the industry: Proficient in the core technology and production technology of current Hall and fluxgate technology-based current and voltage sensors, with a complete set of core technologies from product development, key jigs and equipment design and development, to large-scale industrial production; Ensure that the success rate of new product development is over 90%, to meet the brand new needs of customers and to serve customers better.

CORPORATE CULTURE

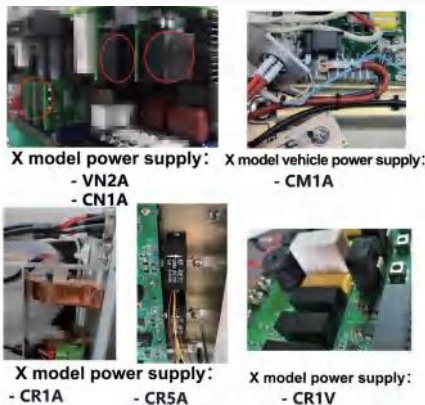
We have a proficient mastery of the industry's mature core technologies and production processes for current and voltage sensors based on Hall and fluxgate technologies, covering R&D, tooling design, and mass production.

Core advantages include: leading technology, based on more than 20 years of industry experience, efficient production of high-performance, stable and reliable products; In-depth knowledge of application field, can develop cutting-edge products and meet customer needs.



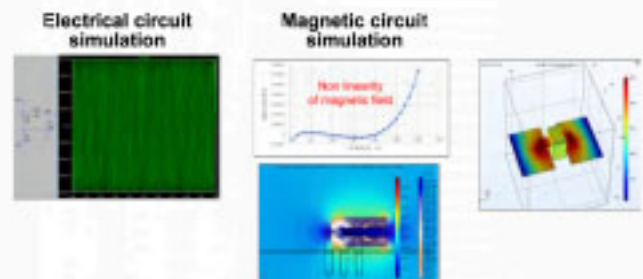
Technology advantage

It has developed a number of products leading domestic and worldwide brands, with the domestic leading, scarce sensor forward research and development capabilities, master the core technology and high R&D efficiency.



Application advantage

R&D and production capacity to define the industry's cutting-edge products and implement them, and guide customers more accurate and more suitable products for their actual needs to better serve customers and serve the market



Experience advantage

Key R&D personnel have more than 20 years of experience in the sensor industry, mastering product design and engineering. The core technical know-how of industrial production can efficiently produce high performance, stable, reliable and consistent good product.



R&D advantage

Joint Tianjin University, Tianjin College of University of Science and Technology Beijing, North China Electric Power University for sensing. The advanced technology of the device is studied in depth and the application is expanded



01

An extremely small size, Type B leakage current sensor. According to the demand of world famous brand's new energy vehicle charging equipment, We use innovative open-loop fluxgate and core software algorithm to develop high-performance, small type B leakage current sensor, the current sensor can be used on the charging pile of many brands of new energy vehicles. It can also be extended to photovoltaic, energy storage and other fields, and can also be extended to the B-type leakage protector industry, and the market space is huge.

02

In response to a customer's needs, We has broken through the volume limitations of high current sensors, using Hall technology and a brand new current measurement topology and core algorithms, to develop the smaller size and more complete-functioned (with different output forms such as CAN bus, analog output, etc.) 300kA current sensor, with a volume of only 3% of similar foreign products, significantly reducing the volume and weight, which brings great convenience to the customer's use, and innovatively reduces the volume and weight of the customer's equipment to the specified range.

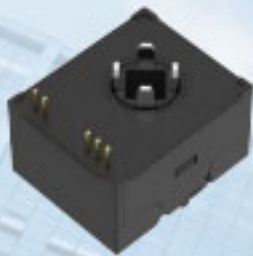
03

A current sensor that can withstand 20 times overload and accurately measure both DC and AC currents. General current sensors can only reach 3 times overload and cannot meet the standard requirements of the circuit breaker industry. A current sensor developed according to customer requirements that can withstand 20 times overload and accurately measure, compared with traditional current sensors, has nearly 7 times the dynamic range. We based on customer requirements, after simulation of electricity, magnetism, and heat, using Hall technology and a brand new sensor current measurement topology, successfully developed a current sensor rated at 2500A and up to 50kA, a world leading, with unique performance. It meets customer needs and leads the application of the circuit breaker industry.

04

A pioneer domestic current sensor designed for smart meters. Based on the requirements of the Electric Power Science Research Institute, after repeated communication with the customer, the technical specifications for the meter current sensor were established. We has adopted innovative technology that not only meets the performance requirements of the current sensor but also complies with the technical requirements of the traditional transformers used in the meter industry, which means this product needs to combine two into one, presenting a significant technical challenge. During the design process of the sensor, the production process of the product has been taken into account, which can fully meet the design requirements for fully automated production, and a fully automatic production line has been planned accordingly. The project design has been completed and is currently in the sample testing phase.

ACHIEVEMENT SHOW



Extremely Small Size
Leakage Current Sensor



300kA Current Sensor
in Smaller Volume



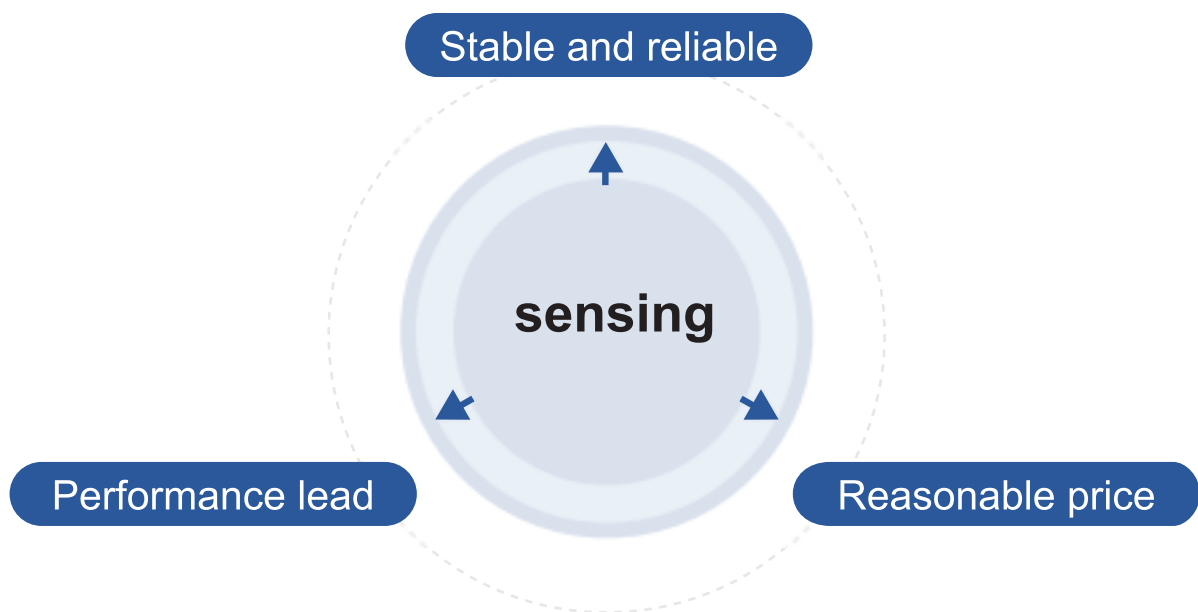
TWENTY Times Overload
Current Sensor



Advanced Smart Meter
Current Sensor



Product introduction



■ Current sensor

Current sensors have a rated range from 5mA to 5000A, and the rated measurement range of voltage sensors ranges from 10V to 6400V. The key performance indicators such as precision, linearity, and temperature drift of the products reach or exceed those of similar products from European and American companies. For example, the closed-loop sensor CMxA series has a precision within 0.1%, a linearity of about 0.02%, and zero point and gain temperature drift around 30ppm/K. The consistency of the products is good, thanks to excellent quality process control, many years of production technology development accumulation, and carefully designed jigs and equipment. It ensures that the precision, linearity, and temperature drift of the same batch and different batches of products are consistent. All products have passed environmental tests and accelerated aging tests. According to the requirements and test results of the accelerated aging tests, the products can ensure uninterrupted work 7×24 hours for 10-15 years.



H series
Hall open loop current sensors



C series
Hall closed loop current sensors



A series based on ASIC
Hall open loop current sensors



T/F series
Leakage current sensors



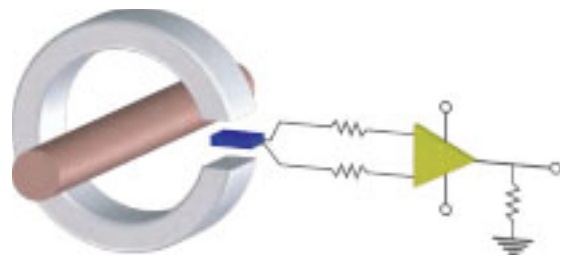
V series voltage sensors

Technical Feature

1.HALL open loop current sensor

Technical features :

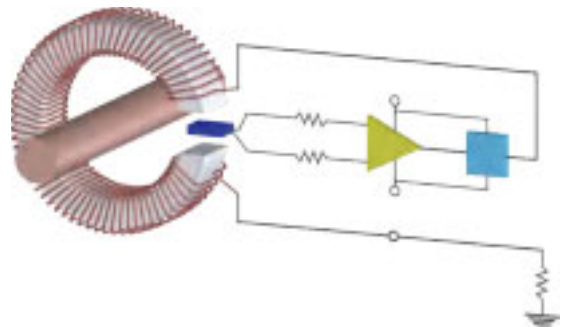
- Small volume
- Wide testing range
- Less weight
- Low power consumption
- No insertion loss



2.HALL closed loop current sensor

Technical features :

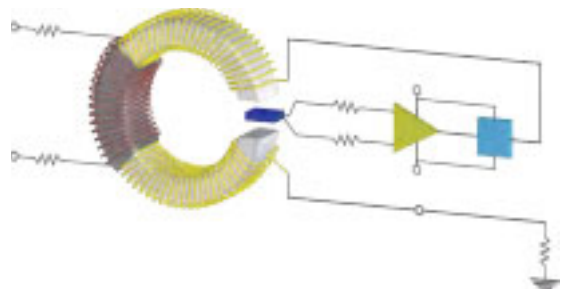
- High frequency bandwidth
- High accuracy
- Low temperature drift
- Excellent nonlinear distortion
- No insertion loss



3.HALL closed loop voltage sensor

Technical features :

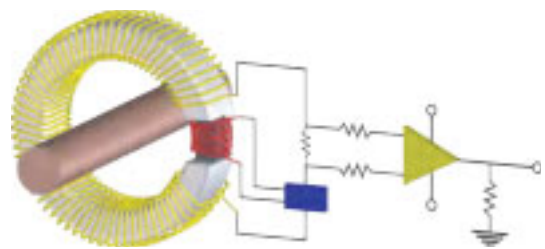
- High voltage measurement
- Safety insulation
- High accuracy
- Low temperature drift
- Excellent nonlinear distortion



4. Fluxgate current sensor

Technical features:

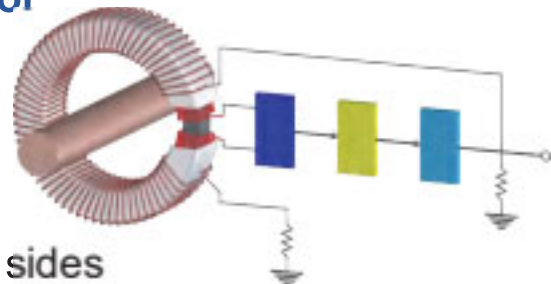
- Apply for measuring various AC, DC, pulses, and complex signals.
- High accuracy
- Very low thermal drift (zero and gain)
- Very small nonlinear distortion
- Insulation of primary and secondary sides



5. Fluxgate DC leakage current sensor

Technical features:

- Measure DC leakage current
- High accuracy
- Excellent nonlinear distortion
- Insulation of primary and secondary sides



Application of sensors in Smart Power Grid

1.Generation

- Photovoltaic power generation
- Wind power generation
- Energy storage system



Photovoltaics



Wind power generation



Energy storage system

2.Transmission

- Fault recorder



Fault recorder

3.Substation

- DC screen



DC screen

4.Distribution

- Active power filter



Active power filter



The application of sensors used in Smart Power Grid

5.Electricity consumption



Variable frequency drive



Uninterruptible power supply



Battery management



Motor control

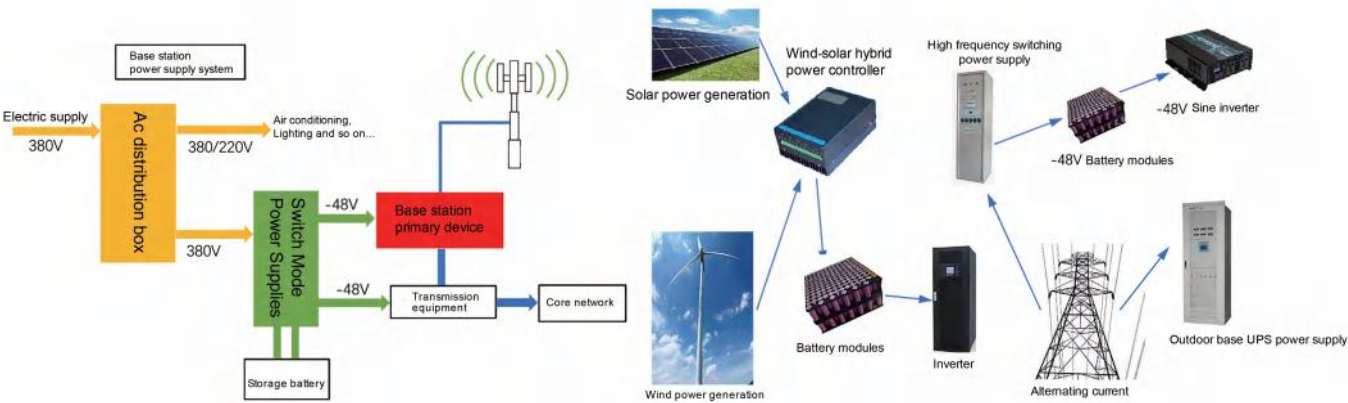


Charging station

The application of AN1V used in 5G base stations

The power demand of the base station is provided by the city power or wind solar complementary new energy generation system, which is converted into -48V DC through AC distribution boxes and switch power supplies and connected to the base station equipment. The base station equipment is then connected to the antenna on the iron tower through feeder/fiber optic cables.

Higher frequency and bandwidth significantly increase the power consumption of SG base stations. Detecting the current level of equipment in the base station and managing the energy consumption of the equipment has become a very important task. For power systems below 48V, selecting a high isolation voltage, current sensor AN1V has cost advantages and can meet the current measurement requirements of SG systems up to 200A



Precautions for using sensors

- 1.The limit parameters for product use should refer to the specifications of each product. Using sensors beyond the limit parameters will result in a decrease in sensor performance or permanent damage.
- 2.When installing the product, assemble according to the torque recommended in the specifications.
- 3.To prevent noise interference in the output signal, it is recommended to use twisted pair or shielded wire for the output line.
- 4.For sensors with through-holes, to ensure performance, it is recommended to install the original copper bar filled with through-holes, or install the copper bar at the center of the through-hole.
- 5.When using a sensor, if other devices generate a magnetic field around it, it may cause a change in accuracy.
- 6.The metal locking layer of the wiring terminals used to match the sensor output socket should be the same as the metal locking layer of the sensor socket.
- 7.Static electricity may cause changes in the zero voltage or zero current of the sensor. Anti-static measures should be taken during the storage, handling, and use of the sensor.
- 8.The storage environment for sensors should avoid high temperature and humidity. When the sensor is stored for 6 months or more, it should be confirmed that the welding performance of the terminals is good before use.
- 9.The closed loop current and voltage sensors should have equal positive and negative supply voltages and be powered on simultaneously, otherwise it may cause an increase in the output zero point.
- 10.The closed-loop current and voltage sensors measure a fixed peak current and its duration. Exceeding this limit may cause damage to the sensor. For specific requirements, please consult our.
- 11.A closed loop current and voltage sensor, whose current consumption is related to the measured current, should ensure that the power supply can provide sufficient current output capacity in operation.

F Series leakage current sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
0.005	±0.007	±15V	±5V	±1.0	DC	-10~70	Ø12		KF2EDG 3.81MM4P	FR7V 0.005 H00
0.01	±0.015	±12...15V	±5V	±1.0	DC	-10~70	Ø20.0		JK2EDG-5.08-4P	FR2V 0.01 H00
0.01	±0.015	±12...15V	±5V	±1.0	DC	-10~70	Ø40.5		JK2EDG-5.08-4P	FR5V 0.01 H00
0.01	±0.017	±15V	±5V	±1.0	DC	-10~70	Ø12		KF2EDG 3.81MM4P	FR7V 0.01 H00
0.02	±0.03	±12...15V	±5V	±1.0	DC	-10~70	Ø20.0		JK2EDG-5.08-4P	FR2V 0.02 H00
0.02	±0.03	±12...15V	±5V	±1.0	DC	-10~70	Ø40.5		JK2EDG-5.08-4P	FR5V 0.02 H00
0.05	±0.075	±12...15V	±5V	±1.0	DC	-10~70	Ø20.0		JK2EDG-5.08-4P	FR2V 0.05 H00
0.05	±0.075	±12...15V	±5V	±1.0	DC	-10~70	Ø40.5		JK2EDG-5.08-4P	FR5V 0.05 H00
0.1	±0.15	±12...15V	±5V	±1.0	DC	-10~70	Ø20.0		JK2EDG-5.08-4P	FR2V 0.1 H00
0.1	±0.15	±12...15V	±5V	±1.0	DC	-10~70	Ø40.5		JK2EDG-5.08-4P	FR5V 0.1 H00
0.3	±0.36	±12...15V	±5V	±1.0	DC	-10~70	Ø20.0		JK2EDG-5.08-4P	FR2V 0.3 H00



FR2V H00 FR5V H00 FR7V H00

H Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V 50 H00
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		MOLEX 5045-04A	HS1V 50 H02
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		RW4*0.2mm2 - 500mm	HS1V 50 H03
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		XH2.54-4P	HS1V 50 H04
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		MOLEX 5045-04A	HS1V 50 H05
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		XH-4A	HS1V 50 H06
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		RW4*0.2mm2 + HC-VH-T	HS1V 50 H08
50	±150	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		RW4*0.2mm2 - 700mm	HS1V 50 H09
50	±100	±12...15V	±5V	±1.0	20kHz	-40~85	Ø20		JK2EDG-5.08-4P	HR1V 50 H01
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4*10.4		MOLEX 5045-04A	HS1V 100 H00



HS1V H00 HS1V H02 HS1V H03 HS1V H04 HS1V H05 HS1V H06 HS1V H08 HS1V H09

H Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way			Model number
		Supply voltage (V)	Secondary output	Accuracy (%)				Busbar (mm)	PCB	Others	
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 100 H02
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RVV4*0.2mm2 - 500mm	HS1V 100 H03
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			XH2.54-4P	HS1V 100 H04
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 100 H05
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			XH-4A	HS1V 100 H06
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RWV4*0.2mm2 + HC-VH-T	HS1V 100 H08
100	±300	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RVV4*0.2mm2 - 700mm	HS1V 100 H09
100	±200	±12...15V	±5V	±1.0	20kHz	-40~85	Ø20			JK2EDG-5.08-4P	HR1V 100 H01
100	±600	20...50V	4...20mA	±1.0	20~6000Hz	-40~85	Ø35.0			WJ2EDGVC-5.08-4P-14	HR1M 100 H00
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 200 H00
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 200 H02
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RVV4*0.2mm2 - 500mm	HS1V 200 H03
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			XH2.54-4P	HS1V 200 H04
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 200 H05
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			XH-4A	HS1V 200 H06
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RWV4*0.2mm2 + HC-VH-T	HS1V 200 H08
200	±600	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RVV4*0.2mm2 - 700mm	HS1V 200 H09
200	±600	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			MOLEX 5045-04A	HS2V 200 H00
200	±600	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			RVP 4 0.3mm2- 1500mm	HS2V 200 H01
200	±600	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			XH-4A	HS2V 200 H02
200	±400	±12...15V	±5V	±1.0	20kHz	-40~85	Ø20			JK2EDG-5.08-4P	HR1V 200 H01
200	±200	±12...15V	±20mA	±1.0	5kHz	-40~85	40.5x32.5			JK2EDG-5.08-4P	HS2A 200 H00
200	±600	20...50V	4...20mA	±1.0	20~6000Hz	-40~85	Ø35.0			WJ2EDGVC-5.08-4P-14	HR1M 200 H00
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 300 H00
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 300 H02
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RVV4*0.2mm2 - 500mm	HS1V 300 H03
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			XH2.54-4P	HS1V 300 H04
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			MOLEX 5045-04A	HS1V 300 H05
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			XH-4A	HS1V 300 H06
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4			RWV4*0.2mm2 + HC-VH-T	HS1V 300 H08



HR1V H01



HR1M H00



HS2V H00



HS2V H01



HS2V H02



HS2A H00

H Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension Busbar (mm)	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)				PCB	Others	
300	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 700mm	HS1V300 H09
300	±600	±12...15V	±5V	±1.0	20kHz	-40~85	Ø20		JK2EDG-5.08-4P	HR1V300 H01
300	±300	±12...15V	±20mA	±1.0	5kHz	-40~85	40.5x32.5		JK2EDG-5.08-4P	HS2A300 H00
300	±1000	20...50V	4...20mA	±1.0	20~6000Hz	-40~85	Ø35.0		WJ2EDGVC-5.08-4P-14	HR1M300 H00
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V400 H00
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V400 H02
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 500mm	HS1V400 H03
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		XH2.54-4P	HS1V400 H04
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V400 H05
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		XH-4A	HS1V400 H06
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 + HC-VH-T	HS1V400 H08
400	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 700mm	HS1V400 H09
400	±1200	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		MOLEX 5045-04A	HS2V400 H00
400	±1200	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		RVP 4 ∅0.3mm2- 1500mm	HS2V400 H01
400	±1200	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		XH-4A	HS2V400 H02
400	±800	±12...15V	±5V	±1.0	20kHz	-40~85	Ø20		JK2EDG-5.08-4P	HR1V400 H01
400	±400	±12...15V	±20mA	±1.0	5kHz	-40~85	40.5x32.5		JK2EDG-5.08-4P	HS2A400 H00
400	±1000	20...50V	4...20mA	±1.0	20~6000Hz	-40~85	Ø35.0		WJ2EDGVC-5.08-4P-14	HR1M400 H00
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V500 H00
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V500 H02
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 500mm	HS1V500 H03
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		XH2.54-4P	HS1V500 H04
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V500 H05
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		XH-4A	HS1V500 H06
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 + HC-VH-T	HS1V500 H08
500	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 700mm	HS1V500 H09
500	±1500	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		MOLEX 5045-04A	HS2V500 H00
500	±1500	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		RVP 4 ∅0.3mm2- 1500mm	HS2V500 H01
500	±1500	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		XH-4A	HS2V500 H02
500	±1500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		MOLEX 5045-04A	HS3V500 H00



HS1V H00 HS1V H02 HS1V H03 HS1V H04 HS1V H05 HS1V H06 HS1V H08 HS1V H09



HS2V H01

HS2V H02

HS2A H00

HR1V H01

HR1M H00

H Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension Busbar (mm)	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)				PCB	Others	
500	±1500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		XH-4A	HS3V 500 H01
500	±900	±12...15V	±5V	±1.0	20kHz	-40~85	Ø20		JK2EDG-5.08-4P	HR1V 500 H01
500	±500	±12...15V	±20mA	±1.0	5kHz	-40~85	40.5x32.5		JK2EDG-5.08-4P	HS2A 500 H00
500	±500	±12...15V	±100mA	±1.0	5kHz	-40~85	64 x 21		JK2EDG-5.08-4P	HS3A 500 H01
500	±1800	20...50V	4...20mA	±1.0	20~6000Hz	-40~85	Ø35.0		WJ2EDGVC-5.08-4P-14	HR1M 500 H00
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V 600 H00
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V 600 H02
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 500mm	HS1V 600 H03
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		XH2.54-4P	HS1V 600 H04
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		MOLEX 5045-04A	HS1V 600 H05
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		XH-4A	HS1V 600 H06
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RWV4*0.2mm2 + HC-VH-T	HS1V 600 H08
600	±900	±12...15V	±4V	±1.0	50kHz	-40~105	20.4x10.4		RVV4*0.2mm2 - 700mm	HS1V 600 H09
600	±1800	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		MOLEX 5045-04A	HS2V 600 H00
600	±1800	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		RVVP 4 ϕ 0.3mm2- 1500mm	HS2V 600 H01
600	±1800	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		XH-4A	HS2V 600 H02
600	±1800	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		MOLEX 5045-04A	HS3V 600 H00
600	±1800	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		XH-4A	HS3V 600 H01
600	±600	±12...15V	±20mA	±1.0	5kHz	-40~85	40.5x32.5		JK2EDG-5.08-4P	HS2A 600 H00
800	±2400	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		MOLEX 5045-04A	HS2V 800 H00
800	±2400	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		RVVP 4 ϕ 0.3mm2- 1500mm	HS2V 800 H01
800	±2400	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		XH-4A	HS2V 800 H02
800	±2400	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		MOLEX 5045-04A	HS3V 800 H00
800	±2400	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		XH-4A	HS3V 800 H01
1000	±2500	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		MOLEX 5045-04A	HS2V 1000 H00
1000	±3000	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		RVVP 4 ϕ 0.3mm2- 1500mm	HS2V 1000 H01
1000	±3000	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		XH-4A	HS2V 1000 H02
1000	±3000	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		MOLEX 5045-04A	HS3V 1000 H00
1000	±3000	±15V	±4V	±1.0	25kHz	-40~85	64 x 21		XH-4A	HS3V 1000 H01
1200	±2500	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5		MOLEX 5045-04A	HS2V 1200 H00



HS3V H00



HS3V H01



HS3A H01



HS2V H00

H Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way			Model number
		Supply voltage (V)	Secondary output	Accuracy (%)				Busbar (mm)	PCB	Others	
1200	±3000	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			RVVP 4 × 0.3mm2- 1500mm	HS2V 1200 H01
1200	±3000	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			XH-4A	HS2V 1200 H02
1200	±1200	±12...15V	±100mA	±1.0	5kHz	-40~85	64 x 21			JK2EDG-5.08-4P	HS3A 1200 H01
1500	±2500	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			MOLEX 5045-04A	HS2V 1500 H00
1500	±3000	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			RVVP 4 × 0.3mm2- 1500mm	HS2V 1500 H01
1500	±3000	±15V	±4V	±1.0	25kHz	-40~105	40.5x32.5			XH-4A	HS2V 1500 H02
1500	±4500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			MOLEX 5045-04A	HS3V 1500 H00
1500	±4500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			XH-4A	HS3V 1500 H01
2000	±5500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			MOLEX 5045-04A	HS3V 2000 H00
2000	±5500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			XH-4A	HS3V 2000 H01
2500	±5500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			MOLEX 5045-04A	HS3V 2500 H00
2500	±5500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			XH-4A	HS3V 2500 H01
3000	±5500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			MOLEX 5045-04A	HS3V 3000 H00
3000	±5500	±15V	±4V	±1.0	25kHz	-40~85	64 x 21			XH-4A	HS3V 3000 H01



HS2V H00



HS2V H01



HS2V H02



HS3A H01



HS3V H00



HS3V H01

C Series Closed loop HALL sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
6	±18	5V	2.5±1.875V	±0.7	100kHz	-40~85		+		CR1V6 PB00
6	±20	5V	2.5±1.875V	±0.8	200kHz	-40~85		+		CR1V6 PB01
6	±12	5V	1.65±1.25	±0.4	200kHz	-40~85		+		CR1V6 PB02
6	±12	5V	1.62±1.25	±0.7	200kHz	-40~85		+		CR1V6 PB03
6	±20	5V	2.5±1.875V	±0.8	200kHz	-40~105		+		CR1V6 PB04
15	±45	5V	2.5±1.875V	±0.7	100kHz	-40~85		+		CR1V15 PB00
15	±51	5V	2.5±1.875V	±0.8	200kHz	-40~85		+		CR1V15 PB01
15	±30	5V	1.65±1.25	±0.4	200kHz	-40~85		+		CR1V15 PB02
15	±30	5V	1.62±1.25	±0.7	200kHz	-40~85		+		CR1V15 PB03
15	±51	5V	2.5±1.875V	±0.8	200kHz	-40~105		+		CR1V15 PB04
20	±30	±12V	±50~90mA	±0.5	150kHz	-40~85	13.5 x 10	+		CS3A20 P01
25	±36	±15V	±25mA	±0.5	150kHz	-40~85		+		CN1A25 PB00
25	±36	±12V	±25mA	±0.5	150kHz	-40~85		+		CN1A25 PB01
25	±55	±12...15V	±25mA	±0.5	200kHz	-40~85		+		CN2A25 PB02
25	±75	5V	2.5±1.875V	±0.7	100kHz	-40~85		+		CR1V25 PB00
25	±85	5V	2.5±1.875V	±0.8	200kHz	-40~85		+		CR1V25 PB01
25	±50	5V	1.65±1.25	±0.4	200kHz	-40~85		+		CR1V25 PB02
25	±50	5V	1.62±1.25	±0.7	200kHz	-40~85		+		CR1V25 PB03
25	±85	5V	2.5±1.875V	±0.8	200kHz	-40~105		+		CR1V25 PB04
40	±110	±12...15V	±20mA	±0.5	200kHz	-40~85		+		CN2A40 PB01
40	±90	±12...15V	±40mA	±0.5	200kHz	-40~85		+		CN2A40 PB02
50	±110	±12...15V	±25mA	±0.5	200kHz	-40~85		+		CN2A50 PB01



CR1V PB00/02



CR1V PB01/03



CR1V PB04



CS3A P00



CS3A P01/21/51



CN1A PB00/01



CN2A PB01/02

C Series Closed loop HALL sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
50	±90	±12...15V	±50mA	±0.5	200kHz	-40~85		+		CN2A 50 PB02
50	±100	5V	1.62±1.25	±0.7	200kHz	-40~85		+		CR1V 50 PB03
50	±150	5V	2.5±1.875V	±0.8	200kHz	-40~105		+		CR1V 50 PB04
50	±70	±12...15V	±50~100mA	±0.5	200kHz	-40~85	Ø23		MOLEX 5045-04A	CR1A 50 H00
50	±90	±12...15V	±50~90mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 50 P00
50	±90	±12...15V	±50~90mA	±0.3	200kHz	-40~85	13.5 x 10	+		CS3A 50 P01
50	±100	±12...15V	±25~37.5mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 50 P21
50	±90	±12...15V	±50~90mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 50 P51
75	±180	5V	2.5V	±1.0	200kHz	-40~105		+		CR1V 75 PB05
80	±160	±12...15V	±40mA	±0.5	200kHz	-40~85		+		CN2A 80 PB01
100	±160	±12...15V	±50mA	±0.5	200kHz	-40~85		+		CN2A 100 PB01
100	±200	±12...15V	±50~100mA	±0.5	200kHz	-40~85	Ø23		MOLEX 5045-04A	CR1A 100 H00
100	±200	±12...15V	±50~100mA	±0.5	200kHz	-40~85	Ø23		JK126-500-3P	CR1A 100 H01
100	±200	±12...15V	±50~100mA	±0.5	200kHz	-40~85	Ø23		HX39600-3Y	CR1A 100 H02
100	±200	±12...15V	±50~100mA	±0.5	200kHz	-40~85	Ø23		Molex 9652048 3.96-A4A	CR1A 100 H04
100	±150	±12...15V	±100~150mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 100 P00
100	±160	±12...15V	±100~160mA	±0.3	200kHz	-40~85	13.5 x 10	+		CS3A 100 P01
100	±150	±12...15V	±50~75mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 100 P21
100	±150	±12...15V	±100~150mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 100 P51
100	±200	±12...15V	±100~200mA	±0.2	100kHz	-40~85	Ø15.6		Molex 6410	CM1A 100 H01
125	±200	±12...15V	±125~200mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 125 P00
200	±400	±12...15V	±100~200mA	±0.5	200kHz	-40~85	Ø23		MOLEX 5045-04A	CR1A 200 H00



CN2A PB01/02



CR1V PB01/03



CR1V PB04



CR1V PB05



CS3A P00



CS3A P01/21/51



CR1A H00



CR1A H01



CR1A H04



CR2A H00

C Series Closed loop HALL sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
200	±400	±12...15V	±100~200mA	±0.5	200kHz	-40~85	Ø23		JK126-500-3P	CR1A 200 H01
200	±400	±12...15V	±100~200mA	±0.5	200kHz	-40~85	Ø23		HX39600-3Y	CR1A 200 H02
200	±400	±12...15V	±100~200mA	±0.5	200kHz	-40~85	Ø23		Molex 9652048 3.96-A4A	CR1A 200 H04
200	±300	±12...15V	±100~150mA	±0.3	150kHz	-40~85	13.5 x 10	+		CS3A 200 P21
200	±420	±12...15V	±100~210mA	±0.2	100kHz	-40~85	Ø15.6		Molex 6410	CM1A 200 H00
200	±420	±12...15V	±100~210mA	±0.2	100kHz	-40~85	Ø15.6		Molex Minifit 5566	CM1A 200 H02
300	±500	±12...15V	±150~250mA	±0.5	200kHz	-40~85	Ø23		MOLEX 5045-04A	CR1A 300 H00
300	±500	±12...15V	±150~250mA	±0.5	200kHz	-40~85	Ø23		JK126-500-3P	CR1A 300 H01
300	±500	±12...15V	±150~250mA	±0.5	200kHz	-40~85	Ø23		HX39600-3Y	CR1A 300 H02
300	±500	±12...15V	±150~250mA	±0.5	200kHz	-40~85	Ø23		Molex 9652048 3.96-A4A	CR1A 300 H04
300	±500	±12...20V	±150~250mA	±0.3	100kHz	-40~85	Ø20		Molex 6410	CM2A 300 H00
400	±600	±15...24V	±100~150mA	±0.5	100kHz	-40~85	Ø35.0		JK126-500-3P	CR2A 400 H00
500	±800	±15...24V	±100~160mA	±0.5	100kHz	-40~85	Ø35.0		JK126-500-3P	CR2A 500 H00
500	±800	±15...24V	±100~160mA	±0.5	100kHz	-40~85	Ø30		Molex 6410	CM3A 500 H00
500	±800	±15...24V	±100~160mA	±0.5	100kHz	-40~85	Ø30		JST B3P VH	CM3A 500 H01
1000	±2100	±15...24V	±200~420mA	±0.3	150kHz	-40~85	Ø38		Molex 6410	CM4A 1000 H00
1000	±2100	±15...24V	±200~420mA	±0.3	150kHz	-40~85	Ø38		JST B3P VH	CM4A 1000 H05
1000	±2700	±15...24V	±200~540mA	±0.3	150kHz	-40~85	Ø38		Molex 6410	CM4A 1000 H06
1000	±2000	±24V	±200~400mA	±0.4	150kHz	-40~85	Primary busbar		4×M5 threaded bolts	CM6A 1000 B00
1200	±1800	±24V	±300~450mA	±0.4	150kHz	-40~85	Ø38		JST B3P VH	CM4A 1000 H03
2000	±3850	±15...24V	±400~770mA	±0.3	150kHz	-40~85	Ø57.5		5566-4A	CM5A 2000 H01
2000	±4250	±15...24V	±400~850mA	±0.3	150kHz	-40~85	Ø57.5		JST B3P VH	CM5A 2000 H20
2000	±4250	±15...24V	±400~850mA	±0.3	150kHz	-40~85	Ø57.5		2EDGV-5.08-3P	CM5A 2000 H21



CM1A H00 CM1A H01 CM1A H02 CM2A H00 CM3A H00 CM3A H01



CM4A H00/06 CM4A H03/05 CM5A H01 CM5A H21 CM6A B00

A Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
5	±15	±12...15V	±4V	±1.0	50kHz	-40~85	NA	+		AN5V 5 PB00
10	±25	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 10 PB30
10	±25	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 10 PB31
10	±25	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 10 PB50
10	±25	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 10 PB51
10	±30	±12...15V	±4V	±1.0	50kHz	-40~85	NA	+		AN5V 10 PB00
15	±45	±12...15V	±4V	±1.0	50kHz	-40~85	NA	+		AN5V 15 PB00
16	±40	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 16 PB30
16	±40	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 16 PB31
16	±40	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 16 PB50
16	±40	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 16 PB51
20	±50	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 20 PB30
20	±50	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 20 PB31
20	±50	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 20 PB50
20	±50	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 20 PB51
20	±60	±12...15V	±4V	±1.0	50kHz	-40~85	NA	+		AN5V 20 PB00
25	±75	±12...15V	±4V	±1.0	50kHz	-40~85	NA	+		AN5V 25 PB00
30	±30	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		RVVP 3 x 0.3mm2 -1000	AS1V 30 H05
32	±80	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 32 PB30
32	±80	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 32 PB31
32	±80	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 32 PB50
32	±80	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 32 PB51
40	±100	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 40 PB30
40	±100	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 40 PB31
40	±100	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 40 PB50
40	±100	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 40 PB51
50	±50	5V	2.5±2V	±1.0	250kHz	-40~150	NA	+		AN1V 50 PB20
50	±50	5V	2.5±2V	±1.0	250kHz	-40~150	NA	+		AN1V 50 PB21
50	50	5V	0.55~4.55V	±1.0	250kHz	-40~150	NA	+		AN1V 50 PB22
50	50	5V	0.55~4.55V	±1.0	250kHz	-40~150	NA	+		AN1V 50 PB23
50	±50	3.3V	1.65±1.32V	±1.0	250kHz	-40~150	NA	+		AN1V 50 PB30
50	±50	3.3V	1.65±1.32V	±1.0	250kHz	-40~150	NA	+		AN1V 50 PB31
50	±125	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 50 PB30



AN5V PB00



AN3V PB30/50



AN3V PB31/51



AS1V H00/01

A Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
50	±125	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 50 PB31
50	±125	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 50 PB50
50	±125	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 50 PB51
50	±150	±12...15V	±4V	±1.0	50kHz	-40~85	NA	+		AN5V 50 PB00
50	±50	±12...15V	±20mA	±1.0	5kHz	-40~85	Ø20.0		JK2EDG-5.08-4P	AR1A 50 H00
50	±50	±12...15V	±100mA	±1.0	5kHz	-40~85	Ø20.0		JK2EDG-5.08-4P	AR1A 50 H01
50	±50	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 50 H00
50	±150	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 50 H01
80	±200	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 80 PB30
80	±200	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 80 PB31
80	±200	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 80 PB50
80	±200	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 80 PB51
100	±100	5V	2.5±2V	±1.0	250kHz	-40~150	NA	+		AN1V 100 PB20
100	±100	5V	2.5±2V	±1.0	250kHz	-40~150	NA	+		AN1V 100 PB21
100	100	5V	0.55~4.55V	±1.0	250kHz	-40~150	NA	+		AN1V 100 PB22
100	100	5V	0.55~4.55V	±1.0	250kHz	-40~150	NA	+		AN1V 100 PB23
100	±100	3.3V	1.65±1.32V	±1.0	250kHz	-40~150	NA	+		AN1V 100 PB30
100	±100	3.3V	1.65±1.32V	±1.0	250kHz	-40~150	NA	+		AN1V 100 PB31
100	±250	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 100 PB30
100	±250	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 100 PB31
100	±250	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 100 PB50
100	±250	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 100 PB51
100	±100	±12...15V	±20mA	±1.0	5kHz	-40~85	Ø20.0		JK2EDG-5.08-4P	AR1A 100 H00
100	±100	±12...15V	±100mA	±1.0	5kHz	-40~85	Ø20.0		JK2EDG-5.08-4P	AR1A 100 H01
100	±100	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 100 H00
100	±300	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 100 H01
100	±100	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		RVVP 3 x 0.3mm2 -600	AS1V 100 H07
120	±300	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 120 PB30
120	±300	3.3V	1.65±1.15V	±1.0	250kHz	-40~105	NA	+		AN3V 120 PB31
120	±300	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 120 PB50
120	±300	5V	2.5±2V	±1.0	250kHz	-40~105	NA	+		AN3V 120 PB51
150	±150	5V	2.5±2V	±1.0	250kHz	-40~125	NA	+		AN1V 150 PB20
150	±150	5V	2.5±2V	±1.0	250kHz	-40~125	NA	+		AN1V 150 PB21



AS1V H05

AS1V H07

AN1V PB20/22/30

AN1V PB21/23/31

AR1A H00/01

A Series Open loop Current Sensor

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
150	150	5V	0.55~4.55V	±1.0	250kHz	-40~125	NA	+		AN1V 150 PB22
150	150	5V	0.55~4.55V	±1.0	250kHz	-40~125	NA	+		AN1V 150 PB23
150	±150	3.3V	1.65±1.32V	±1.0	250kHz	-40~125	NA	+		AN1V 150 PB30
150	±150	3.3V	1.65±1.32V	±1.0	250kHz	-40~125	NA	+		AN1V 150 PB31
200	±200	5V	2.5±2V	±1.0	250kHz	-40~85	NA	+		AN1V 200 PB20
200	±200	5V	2.5±2V	±1.0	250kHz	-40~85	NA	+		AN1V 200 PB21
200	200	5V	0.55~4.55V	±1.0	250kHz	-40~85	NA	+		AN1V 200 PB22
200	200	5V	0.55~4.55V	±1.0	250kHz	-40~85	NA	+		AN1V 200 PB23
200	±200	3.3V	1.65±1.32V	±1.0	250kHz	-40~85	NA	+		AN1V 200 PB30
200	±200	3.3V	1.65±1.32V	±1.0	250kHz	-40~85	NA	+		AN1V 200 PB31
200	±200	±12...15V	±20mA	±1.0	5kHz	-40~85	Ø20.0		JK2EDG-5.08-4P	AR1A 200 H00
200	±200	±12...15V	±100mA	±1.0	5kHz	-40~85	Ø20.0		JK2EDG-5.08-4P	AR1A 200 H01
200	±200	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 200 H00
200	±600	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 200 H01
200	±200	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		RVVP 3 x 0.3mm2 -600	AS1V 200 H07
300	±300	5V	2.5±2V	±1.0	250kHz	-40~85	NA	+		AN1V 300 PB20
300	300	5V	0.55~4.55V	±1.0	250kHz	-40~85	NA	+		AN1V 300 PB22
300	300	5V	0.55~4.55V	±1.0	250kHz	-40~85	NA	+		AN1V 300 PB23
300	±300	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 300 H00
300	±900	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 300 H01
400	±400	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 400 H00
400	±900	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 400 H01
500	±500	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 500 H00
500	±900	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 500 H01
600	±600	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 600 H00
600	±900	5V	2.5±0.625V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 600 H01
700	±700	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 700 H00
800	±800	5V	2.5±2V	±1.0	50kHz	-40~105	20.5 x 10.5		MOLEX 5045-04A	AS1V 800 H00



AN1V PB20/22/30



AN1V PB21/23/31



AN3V PB30/50



AN3V PB31/51



AR1A H00/01



AS1V H00/01



AS1V H07

Leakage current sensors

Primary nominal RMS current (A)	Measuring range (A)	Key performance			Output bandwidth	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
		Supply voltage (V)	Secondary output	Accuracy (%)			Busbar (mm)	PCB	Others	
0.01	0.015	±12...15V	5V	±1	50Hz	-10~70	Ø20.0		JK2EDG-5.08-4P	TR1V 0.01 H00
0.02	0.03	±12...15V	5V	±1	50Hz	-10~70	Ø20.0		JK2EDG-5.08-4P	TR1V 0.02 H00
0.05	0.075	±12...15V	5V	±1	50Hz	-10~70	Ø20.0		JK2EDG-5.08-4P	TR1V 0.05 H00
0.1	0.15	±12...15V	5V	±1	50Hz	-10~70	Ø20.0		JK2EDG-5.08-4P	TR1V 0.1 H00
0.2	0.25	±12...15V	5V	±1	50Hz	-10~70	Ø20.0		JK2EDG-5.08-4P	TR1V 0.2 H00
16	23	±12...15V	10V	±0.5	50Hz	-10~70	Ø20.0		RW0.2×4	TR5V 16 H00

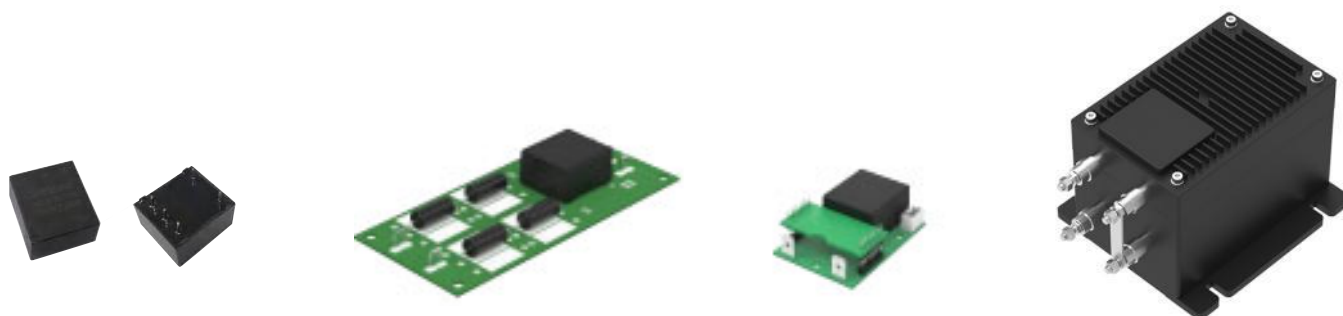


TR1V H00

TR5V H00

Voltage sensors

Primary nominal RMS	Measuring range	Supply voltage (V)	Secondary output	Accuracy (%)	Operating temperature (°C)	Key dimension	Secondary side connection way		Model number
						Busbar(mm)	PCB	Others	
5mA	7mA	24V	±25mA	±0.8	-40~85	NA	+		VN2A 25 P701
5mA	7mA	24V	±25mA	±0.8	-40~85	NA	+		VN2A 25 P704
10mA	±14mA	±15V	±25mA	±0.6	-40~85	NA	+		VN2A 25 P700
10mA	±14mA	24V	±25mA	±0.8	-40~85	NA	+		VN2A 25 P702
250mA	±350mA	±12V	±25mA	±0.6	-40~85	NA	+		VN2A 25 P705
400V	±400V	±12V	±5V	±0.6	-40~85	NA		3个Faston 6.3 x 0.8mm	VN2A 400 PB02
800V	±1400V	±12...15V	±25mA	±0.6	-40~85	NA		3个Faston 6.3 x 0.8mm	VN2A 800 PB00
800V	±1400V	24V	4V	±0.6	-40~85	NA		3个Faston 6.3 x 0.8mm	VN2A 800 PB01
1100V	±1500V	±12...15V	±25mA	±0.6	-40~85	NA		3个Faston 6.3 x 0.8mm	VN2A 1100 PB00
1100V	±1500V	±15V	±4V	±0.6	-40~85	NA		3个Faston 6.3 x 0.8mm	VN2A 1100 PB03
1100V	±1100V	±12V	±4V	±0.6	-40~85	NA		XH-3A	VN2A 1100 PB20
6400V	±9600V	±15...24V	±80mA	±1.0	-20~70	NA		M5 threaded bolts	VN3A 6400 M00



VN2A P00/01/02/04/05

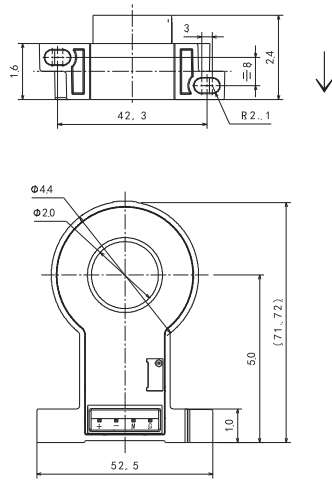
VN2A PB00/01/02/03

VN2A PB20

VN3A M00

Product appearance dimension drawing

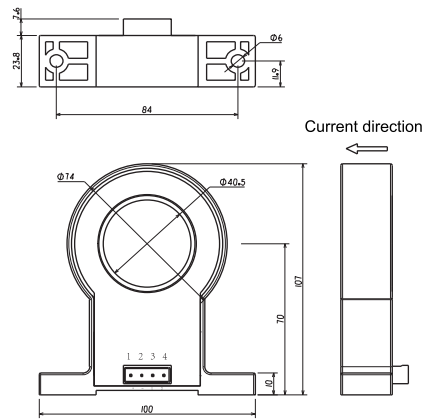
FR2V H00



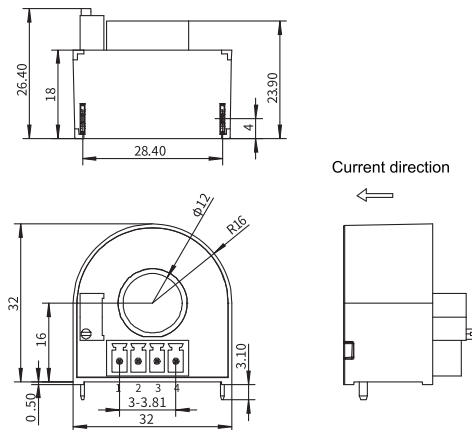
Typical application circuit:



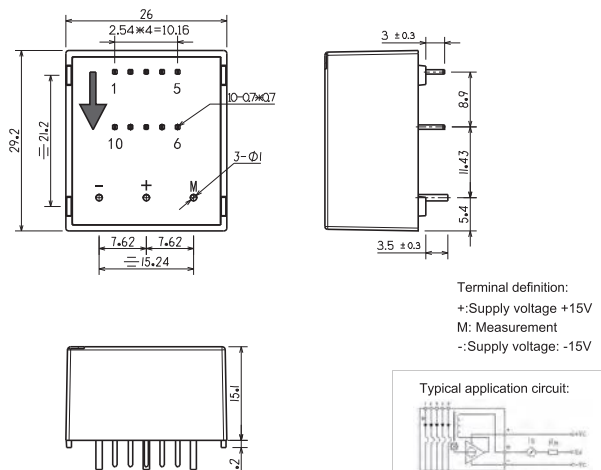
FR5V H00



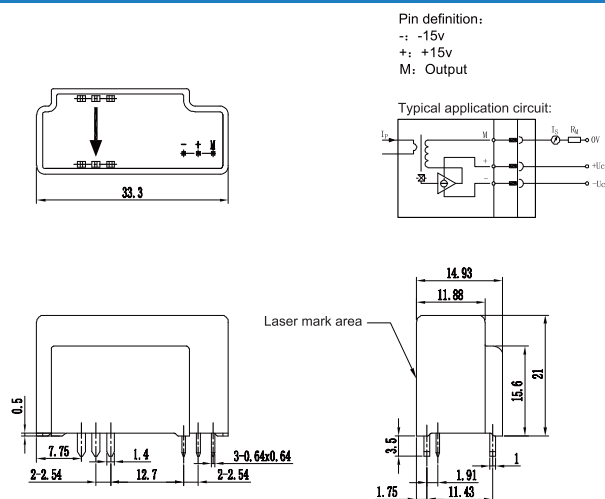
FR7V H00



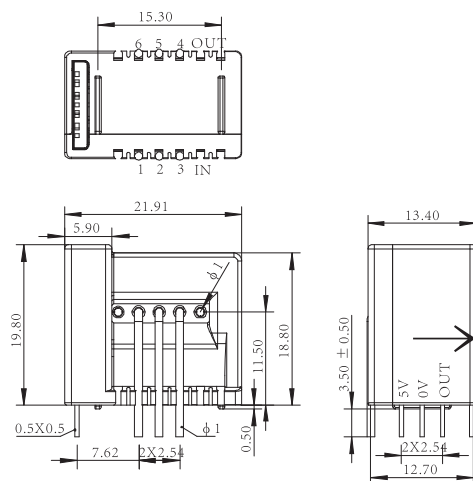
CN1A PB00/01



CN2A PB01/02

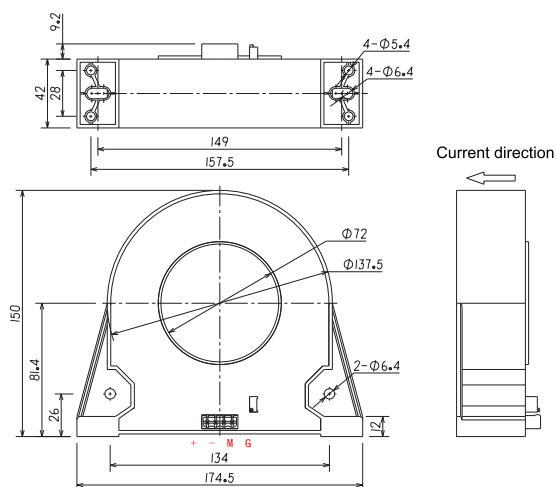


CR1V PB00/02

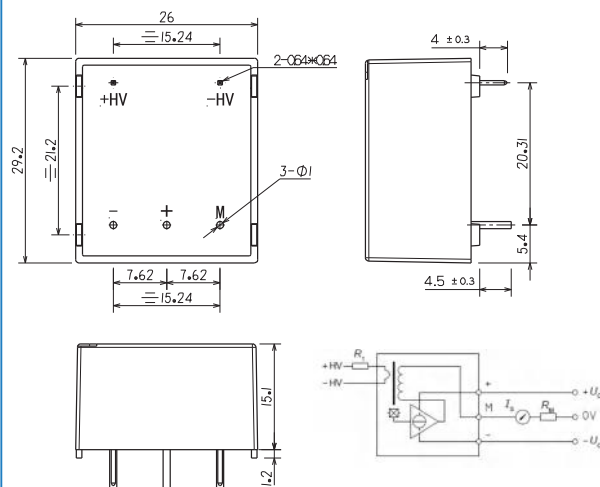


Product appearance dimension drawing

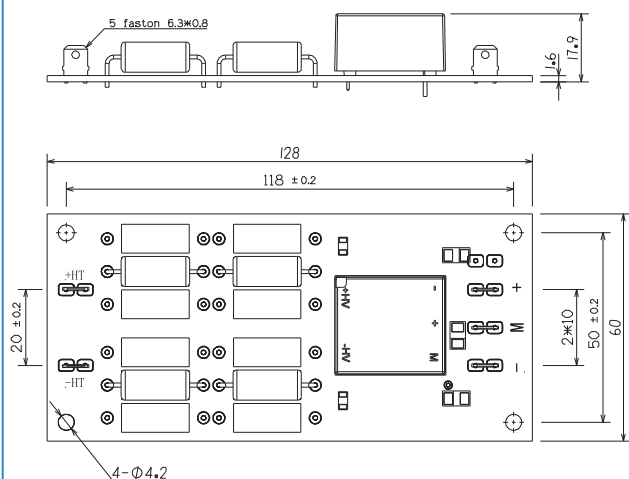
TR5V H00



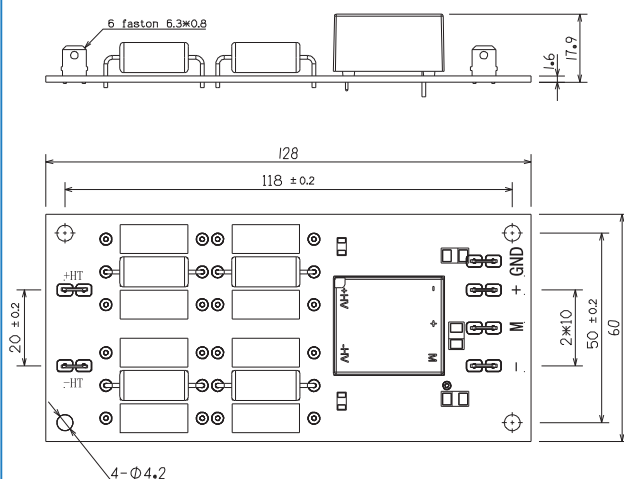
VN2A P00/01/02/04/05



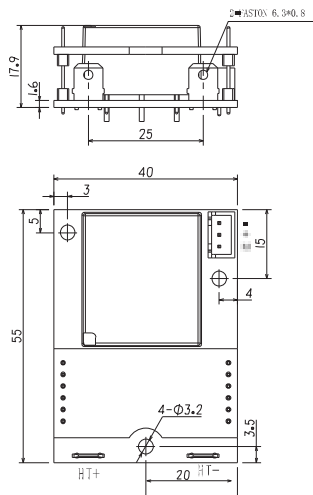
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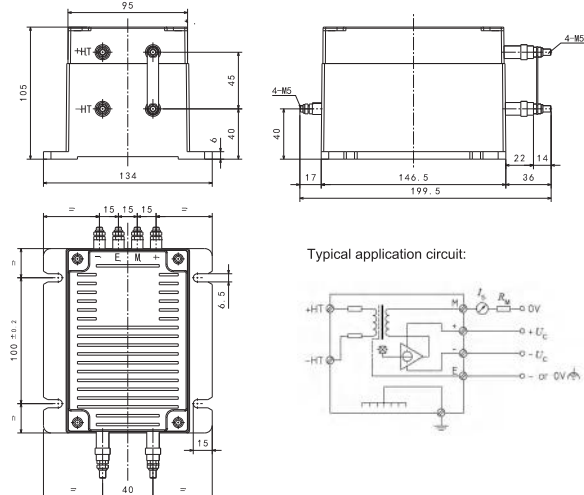
VN2A PB02/03



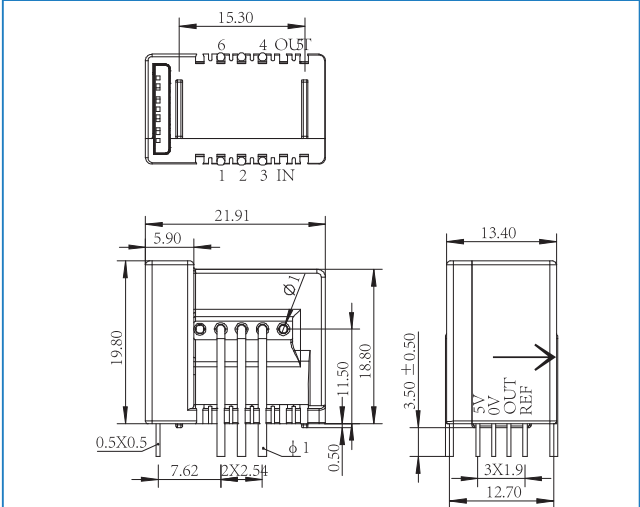
VN2A PB20



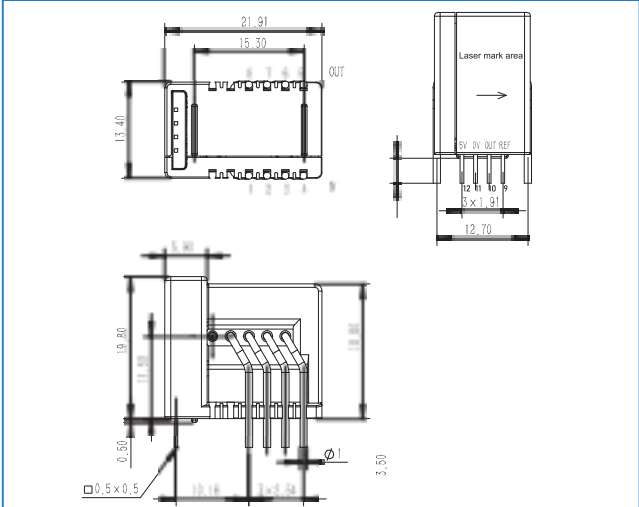
VN3A M00



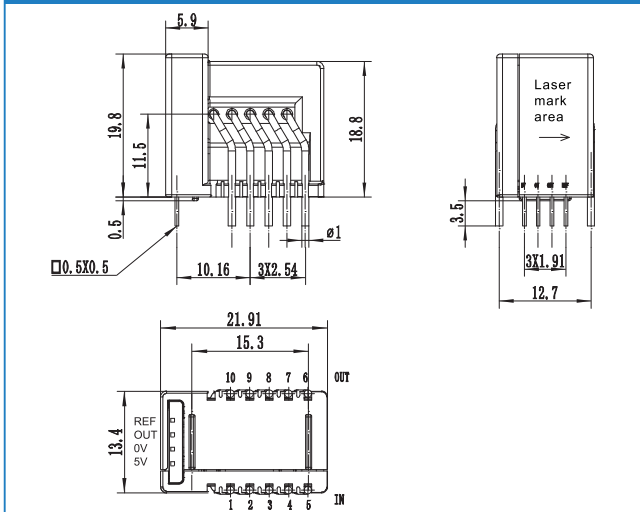
CR1V PB01/03



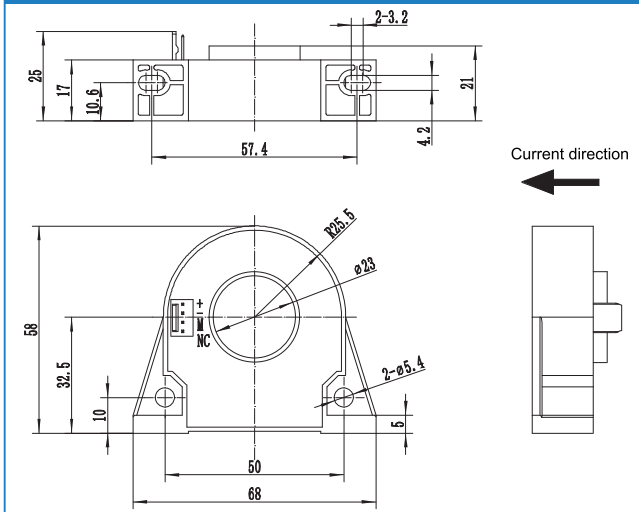
CR1V PB04



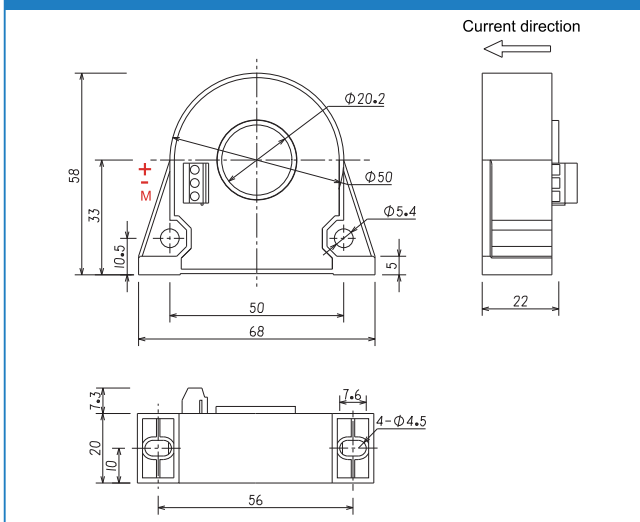
CR1V PB05



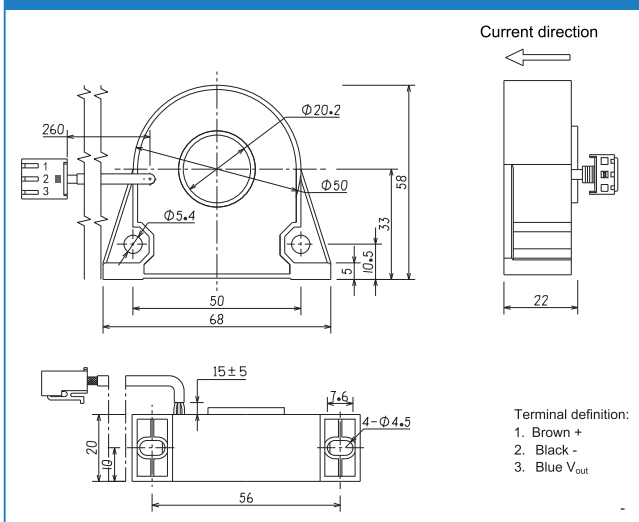
CR1A H00



CR1A H01

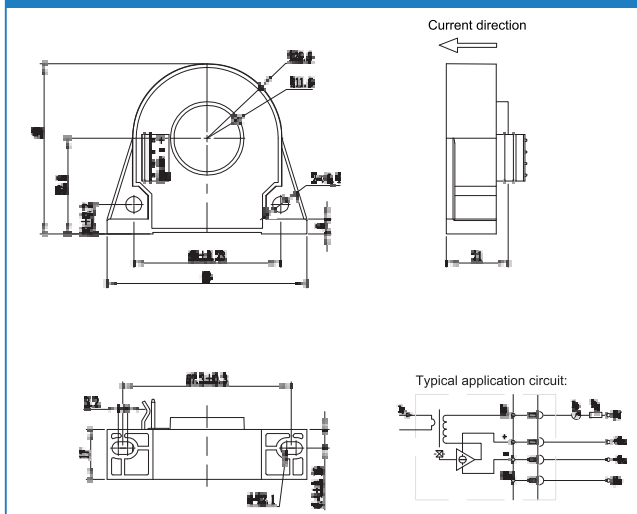


CR1A H02

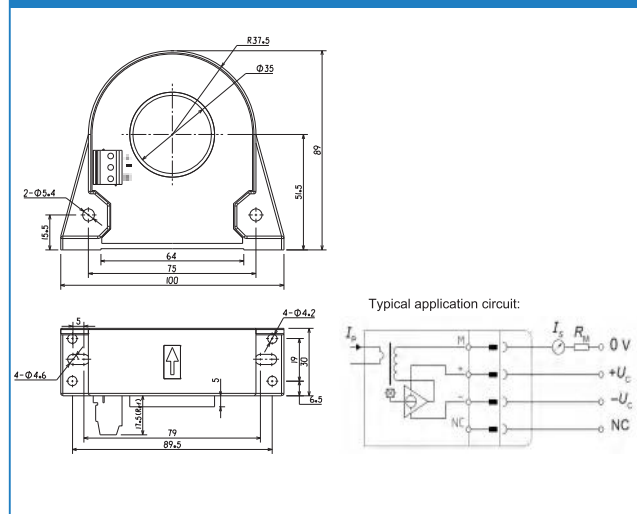


Product appearance dimension drawing

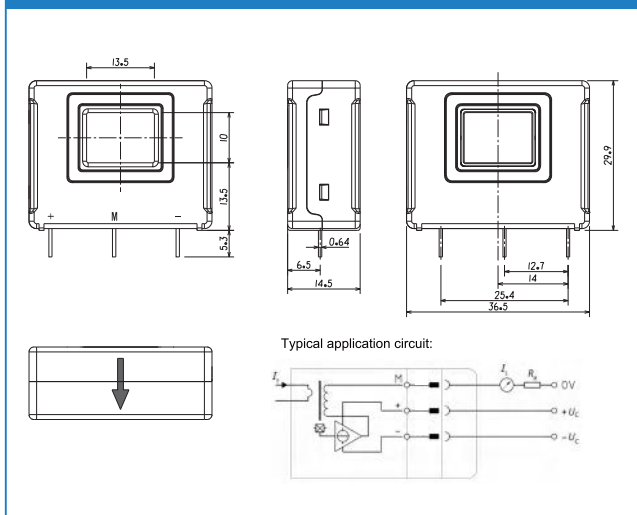
CR1A H04



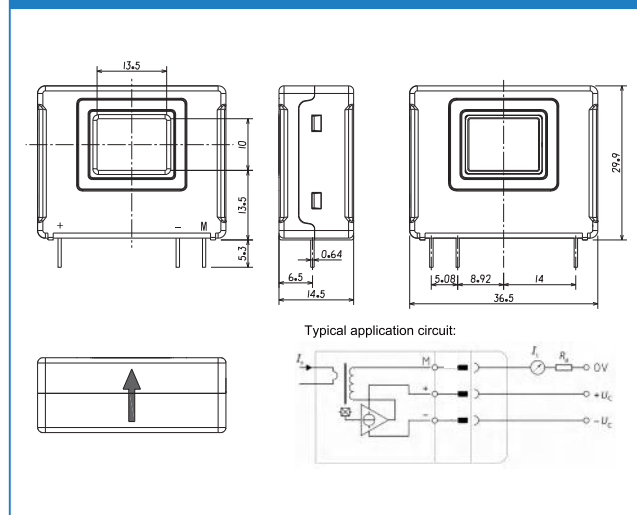
CR2A H00



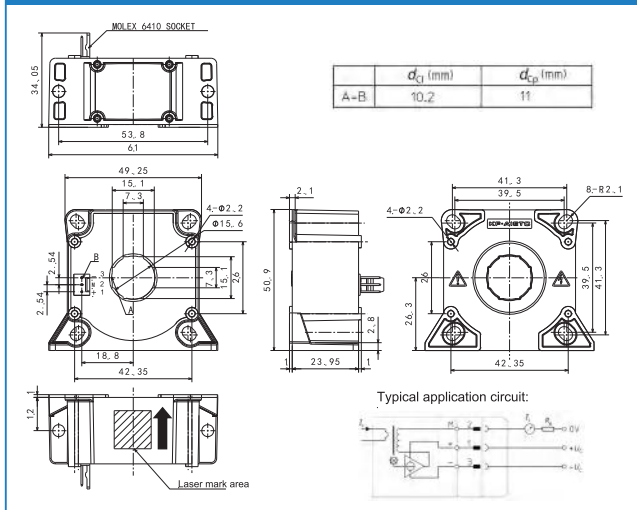
CS3A P00



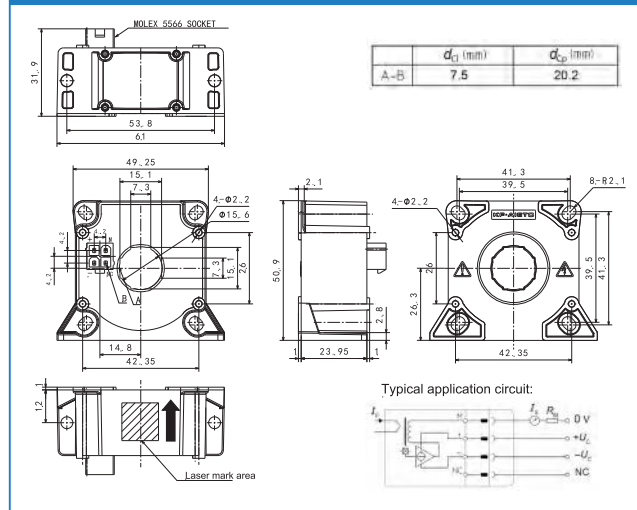
CS3A P01/P21/P51



CM1A H00/01

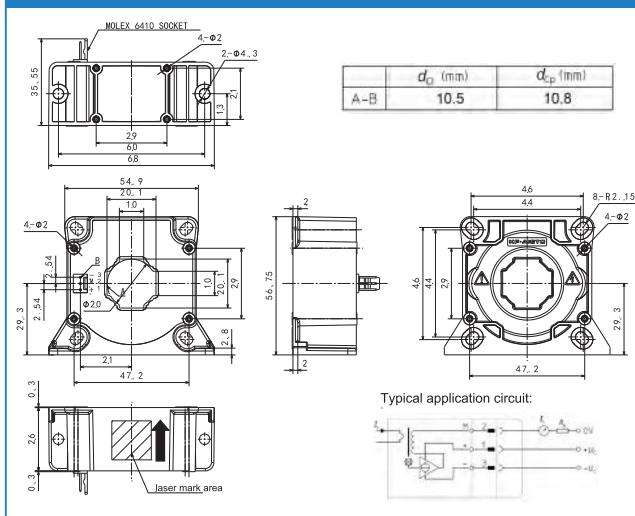


CM1A H02

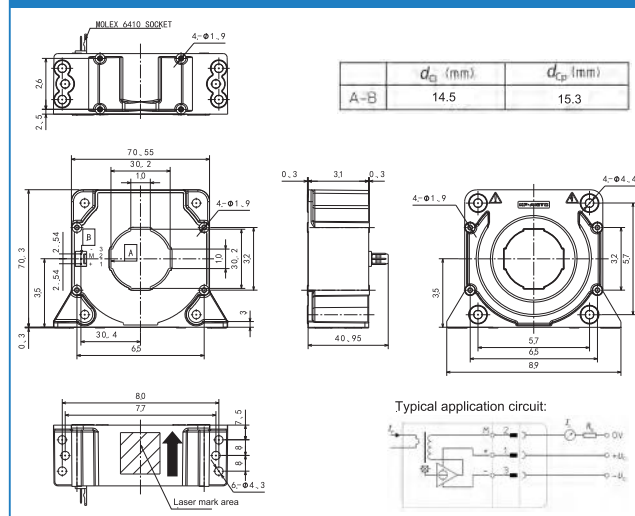


Product appearance dimension drawing

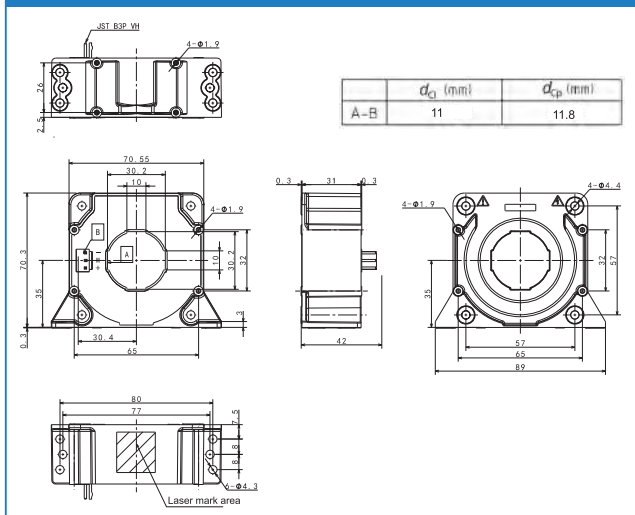
CM2A H00



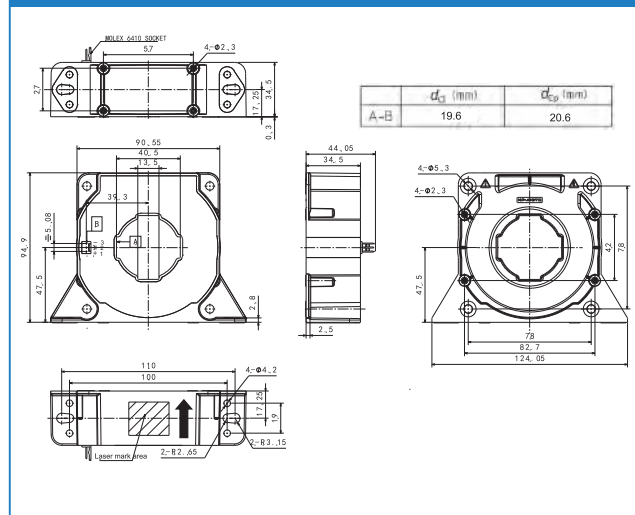
CM3A H00



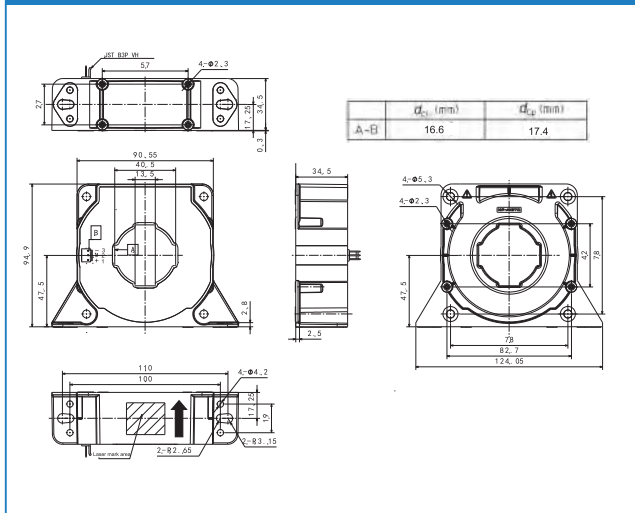
CM3A H01



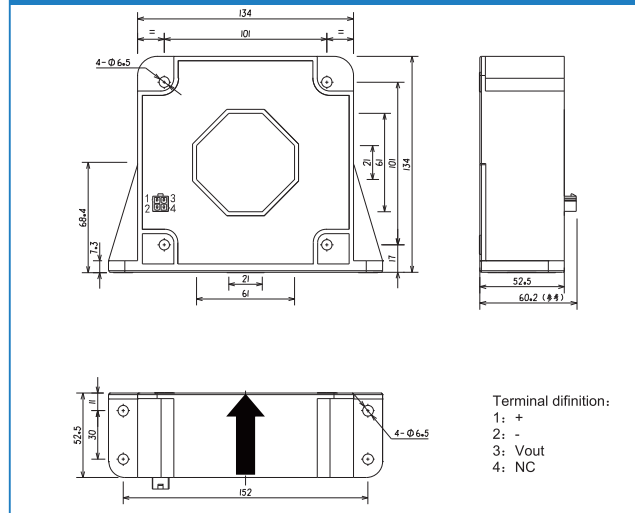
CM4A H00/06



CM4A H03/05



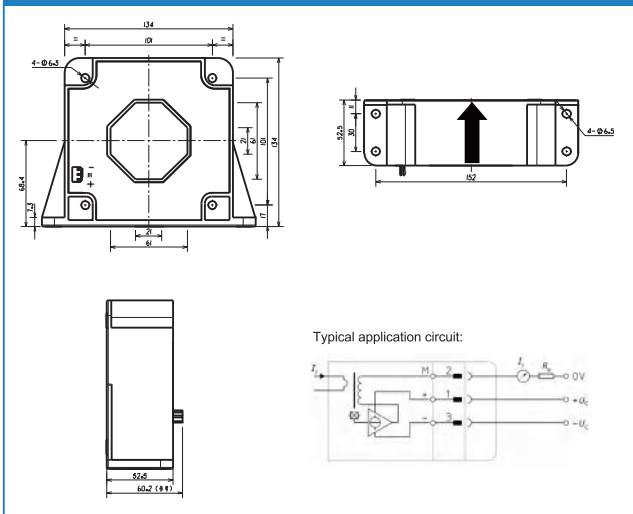
CM5A H01



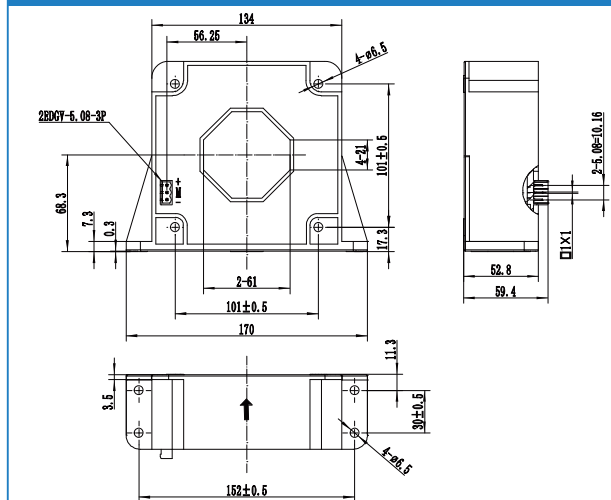
Terminal definition:
1: +
2: -
3: Vout
4: NC

Product appearance dimension drawing

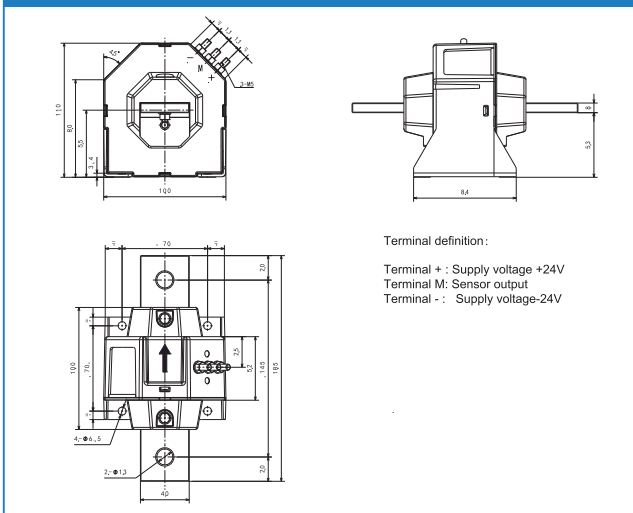
CM5A H20



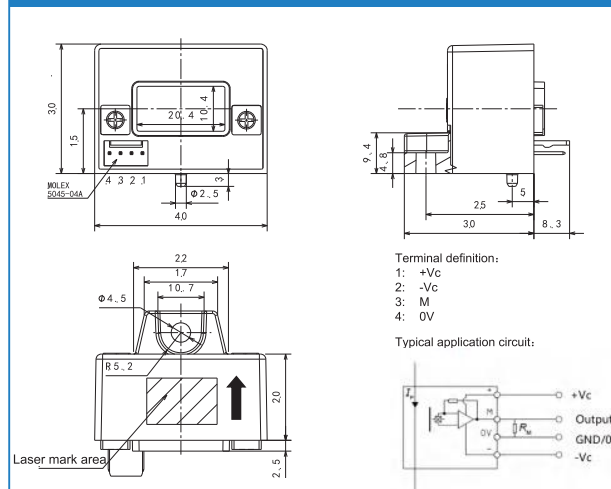
CM5A H21



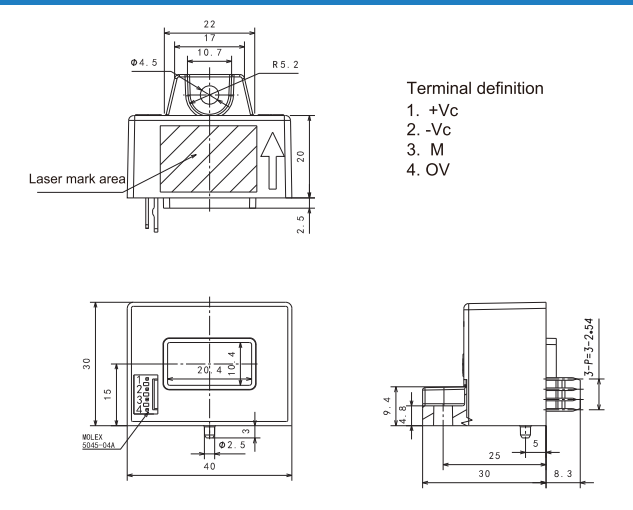
CM6A B00



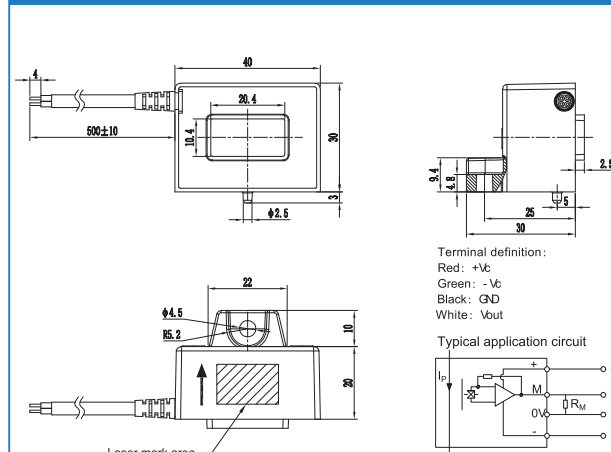
HS1V H00



HS1V H02

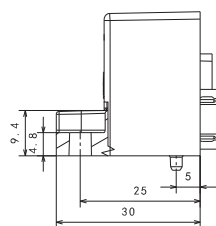
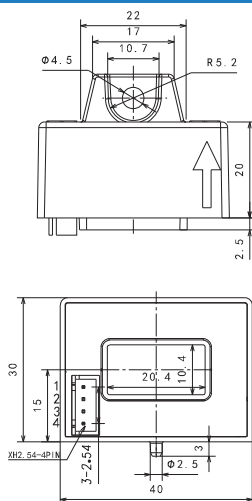


HS1V H03



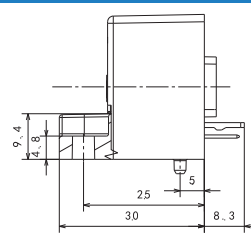
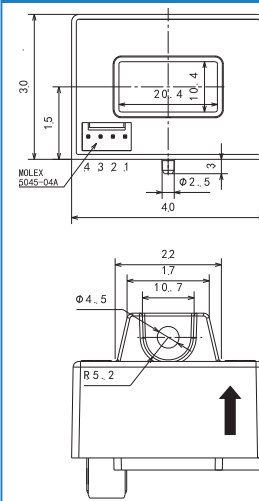
Product appearance dimension drawing

HS1V H04



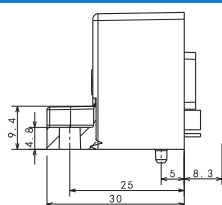
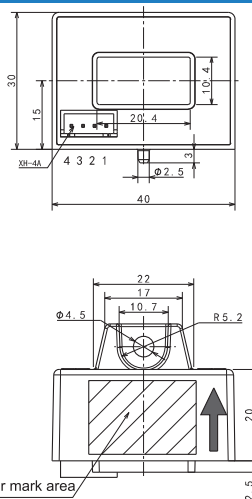
Terminal definition:
1: +Vc
2: -Vc
3: Vuot
4: GND

HS1V H05



Terminal definition
1: V+
2: V-
3: Vout
4: GND

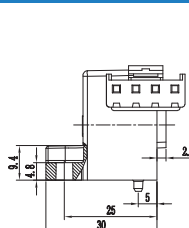
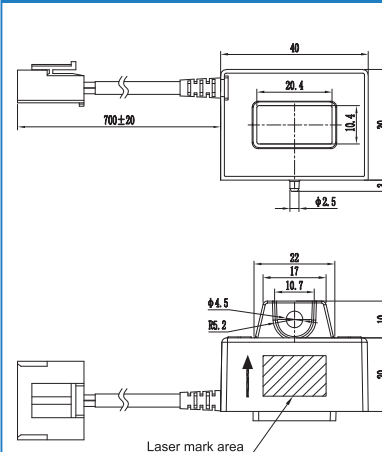
HS1V H06



Terminal definition:
1. V+
2. V-
3. Vout
4. GND

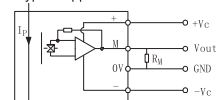
Laser mark area

HS1V H08

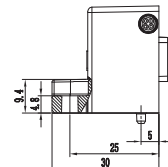
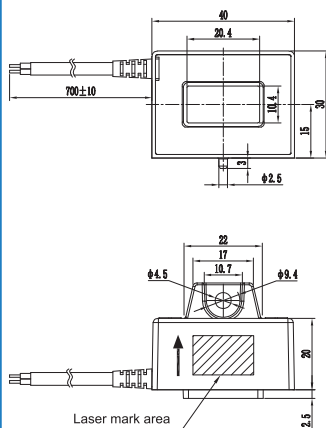


Terminal definition:
Red: +Vc
Green: -Vc
White: Vout
Black: GND

Typical application circuit:

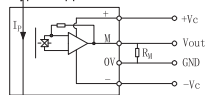


HS1V H09

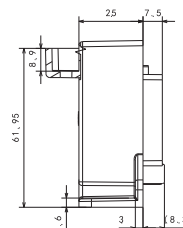
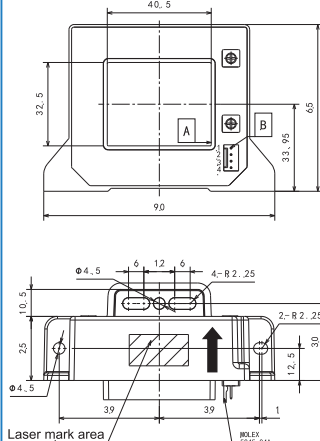


Wire connection definition:
Red: +Vc
Green: -Vc
Black: GND
White: Vout

Typical application circuit:

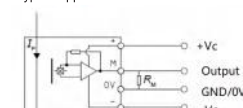


HS2V H00



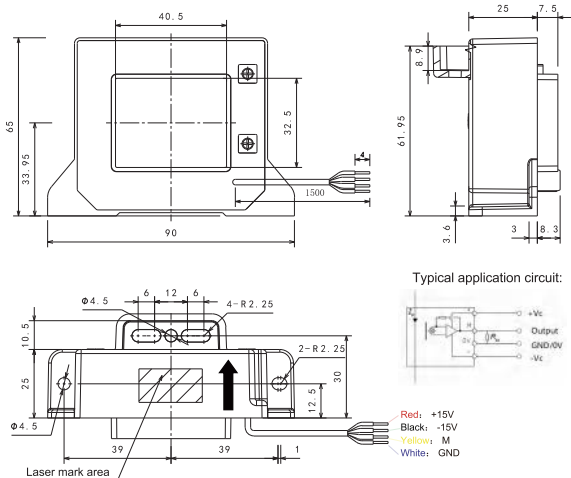
Terminal definition:
1: +Vc
2: -Vc
3: M
4: 0V

Typical application circuit:

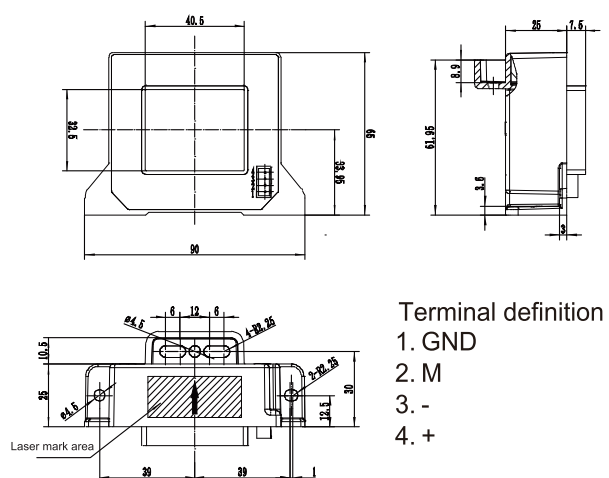


Product appearance dimension drawing

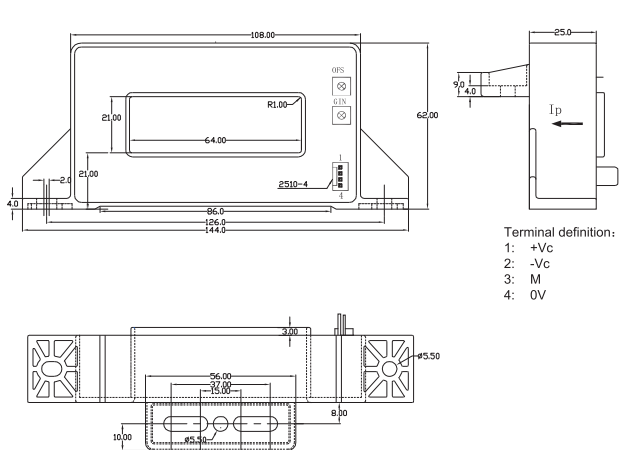
HS2V H01



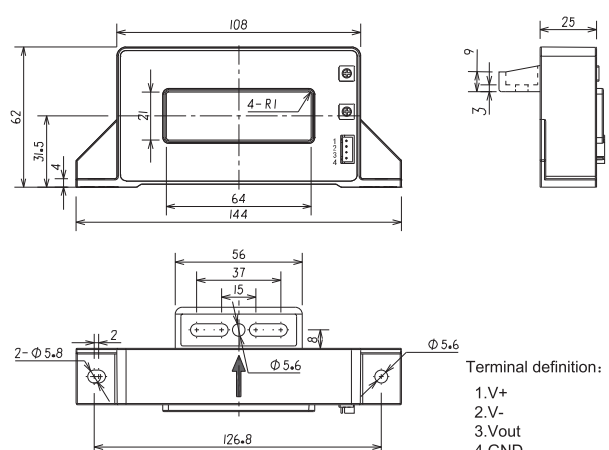
HS2V H02



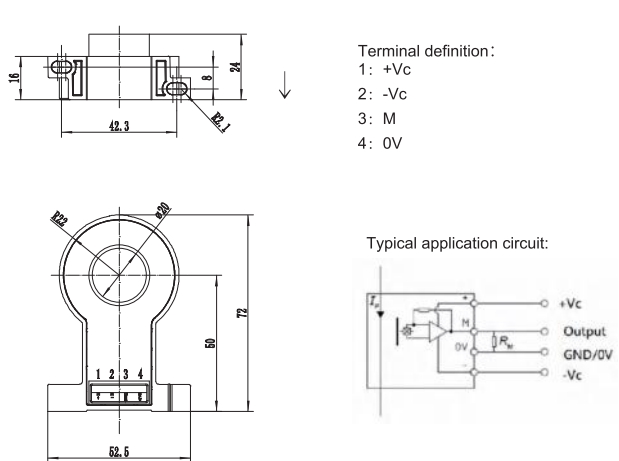
HS3V H00



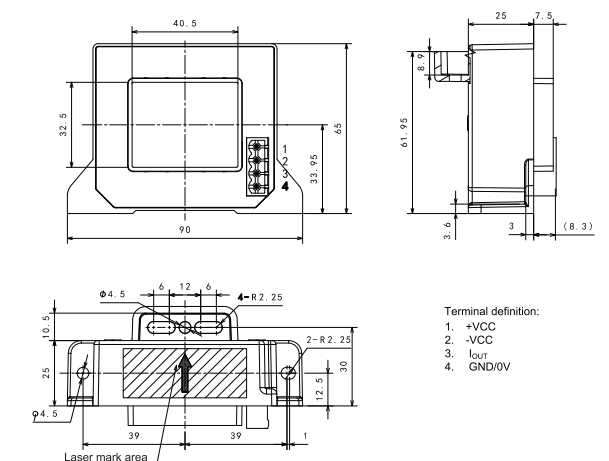
HS3V H01



HR1V H01

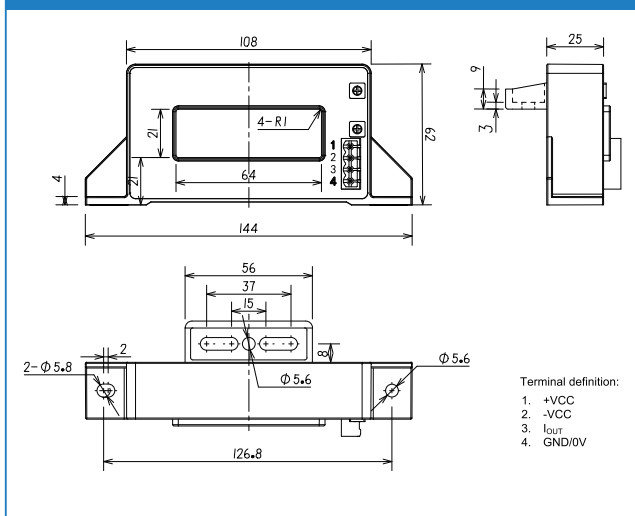


HS2A H00

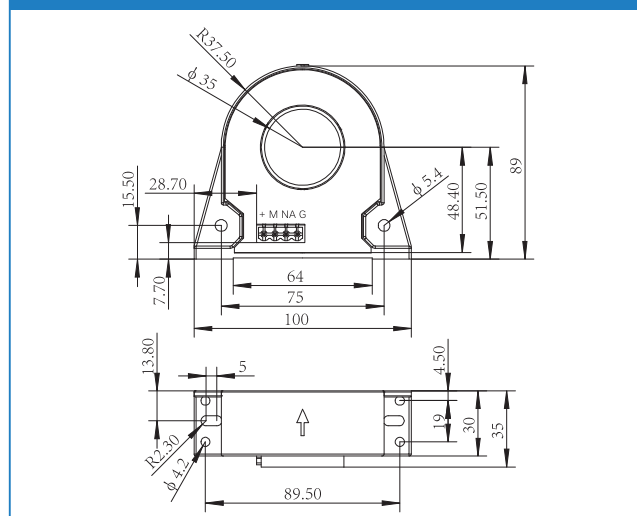


Product appearance dimension drawing

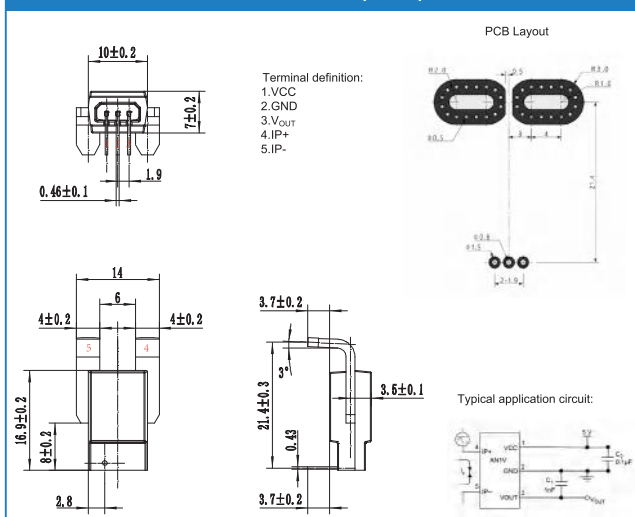
HS3A H01



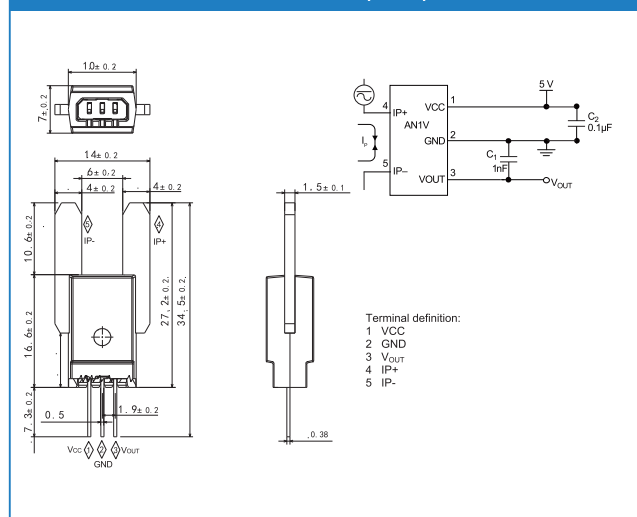
HR1M H00



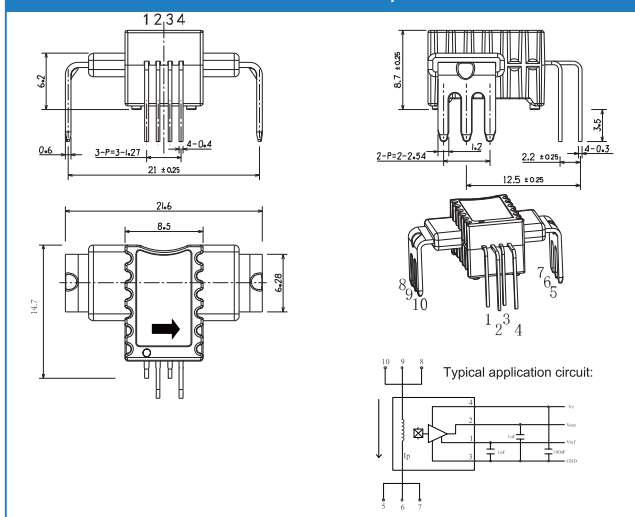
AN1V PB20/22/30



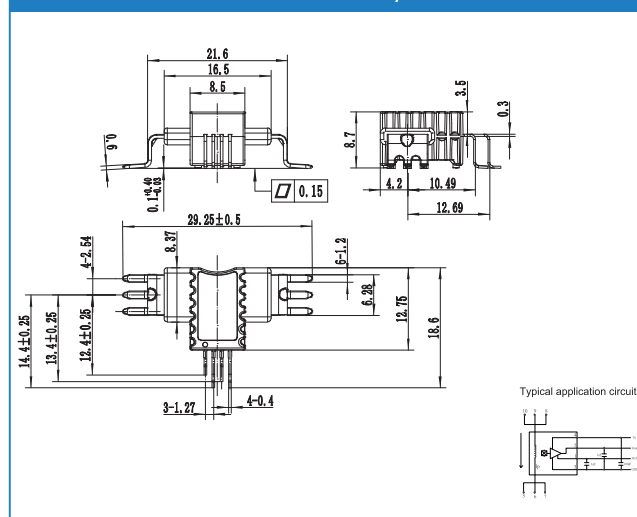
AN1V PB21/23/31



AN3V PB30/50



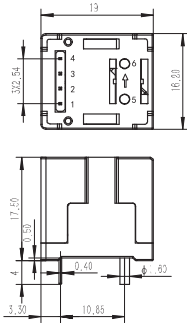
AN3V PB31/51



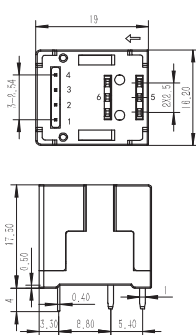
Product appearance dimension drawing

AN5V PB00

AN5V 5...25 PB00



AN5V 50 PB00



Terminal definition:

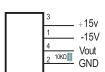
- 1: -15V
- 2: GND/0V
- 3: +15V
- 4: Vout
- 5: Primary input current(+)
- 6: Primary input current(-)

Diameter of primary conductor:

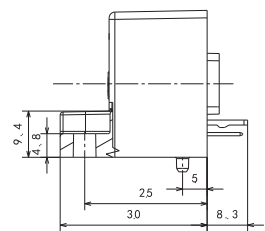
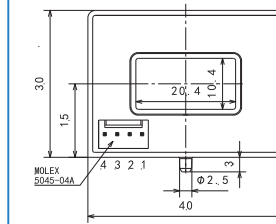
Product	Dia (mm)
AN5V 5 PB00	1.1
AN5V 10 PB00	1.1
AN5V 15 PB00	1.6
AN5V 20 PB00	1.6
AN5V 25 PB00	1.6
AN5V 50 PB00	1.0±0.3

Secondary pin dimension 0.4 x 0.4mm

Typical application circuit:



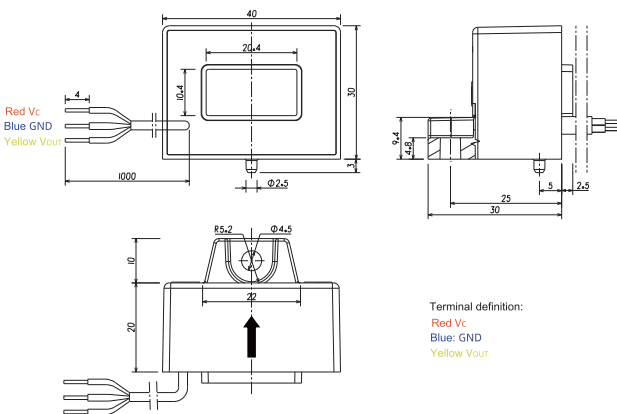
AS1V H00



Terminal definition:

- 1: Nc
- 2: Vout
- 3: GND/0V
- 4: +5V

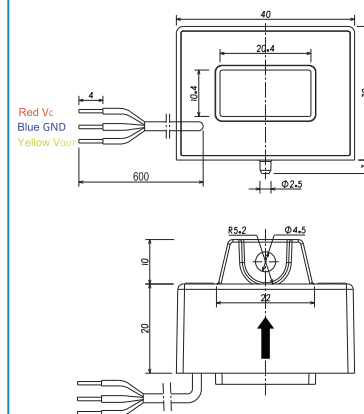
AS1V H05



Terminal definition:

- Red Vc
- Blue GND
- Yellow Vout

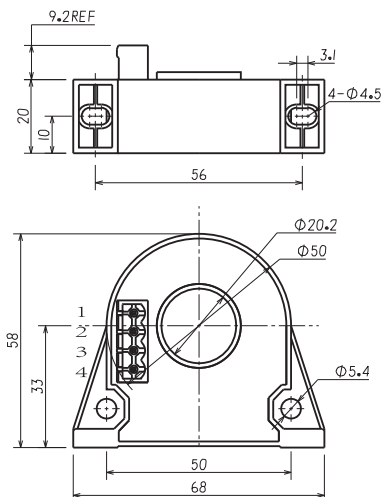
AS1V H07



Terminal definition:

- Red Vc
- Blue GND
- Yellow Vout

AR1A H00/01



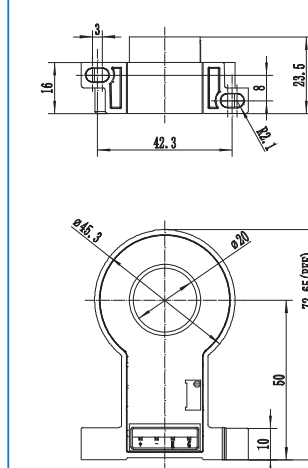
Terminal definition:

- 1: +Vc
- 2: -Vc
- 3: Vout
- 4: GND

Current direction



TR1V H00



CustomizedRequirementsTable	
Current sensor application:	
Application: ☐ Industry ☐ Military ☐ Locomotive ☐ Industrial automation ☐ Others_____	
Function: ☐ Test ☐ Control ☐ Others, please specify_____	
Voltage sensor application:	
Application: ☐ Industry ☐ Military ☐ Locomotive ☐ Industrial automation ☐ Others_____	
Function: ☐ Test ☐ Control ☐ Others, please specify_____	
Tested current signal	Electrical safety and temperature characteristics
Signal type:	Accuracy X (% of I_{PN} @ 25 °C) ____%
☐ AC sin. ☐ DC	Accuracy over the entire temperature range ____%
☐ Square ☐ pulse	Maximum offset @ 25 °C ____ mV ☐ mA
☐ Other	Dielectric strength:
☐ Bidirectional ☐ unidirectional	OV category :
Typical (I_{PN}) _____rms	Pollution degree:
Max. (I_{PM}) _____pk	Rated Insulation Voltage:
Overload current peak: _____pk	Single insulation: ____V
Duration _____s	Reinforced insulation: ____V
Current Rate of Change di/dt : _____A/s	Primary and secondary withstand voltage (50 Hz/ 1 mn): ____KV rms
Voltage Rate of Change dv/dt: _____kV/s	Supply voltage: ____V $\pm$ ____%
Bandwidth: _____kHz	Output signal: ☐ mA/A ☐ mV/A
Working frequency: _____Hz	Temperature characteristics:
Ripple: _____p/pk	Operating temperature: ____°C to ____°C
Ripple frequency: _____Hz	Storage temperature: ____°C to ____°C
Mechanical performance requirements	
Maximum size: L_____mm x W_____mm x H_____mm	
Mounting type: ☐ PCB ☐ Panel	
Output type: ☐ PCB ☐ Connector ☐ Cable ☐ other_____	
Primary busbar: ☐ Hole: L_____mm x W_____mm ; or Ø_____mm	
☐ Current busbar L_____mm x W_____mm x H_____mm	
Other special requirements	

Application fields



New energy application



Typical applications:

photovoltaic power generation, wind power generation, hydrogen power generation, storage...



Power and industrial applications



Typical applications:

Power inverter, inverter, servo, rail transit, welding power supply, circuit breaker, reactive power generator, active filter, AC/DC screen, smart meters, instrumentation...



New energy vehicles and home appliances applications



Typical applications:

New energy vehicles, charging piles, air conditioners, refrigerators, Intelligent electric, leakage protector...



Aerospace field applications



Typical applications:

Transportation system, radar system, avionics system, drone...