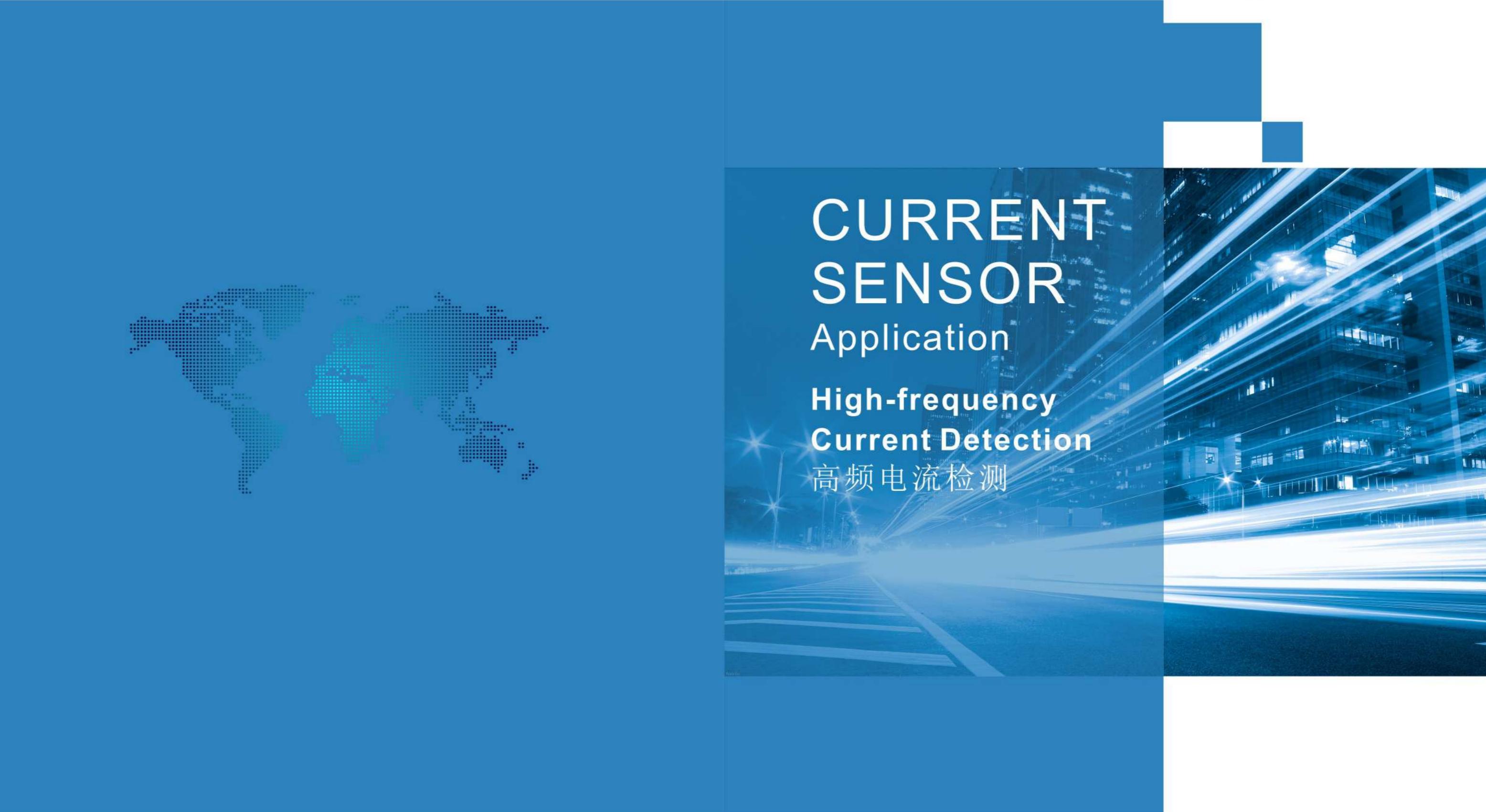


## CURRENT SENSOR APPLICATION



Founded in 2013, Sinomags is dedicated to the development and production of magnetic sensors. we have four subsidiary companies in Germany, Wuxi, Ningbo, and Bengbu.

The company's R&D team consists of more than 250 R&D personnel with a number of experts in the field of magnetism and power electronics as the core, covering the design development and production of the whole industrial chain from xMR wafers to sensor modules.

**1200/250 employees**

1200 employees, 250 R&D staff

**500 Mpc**

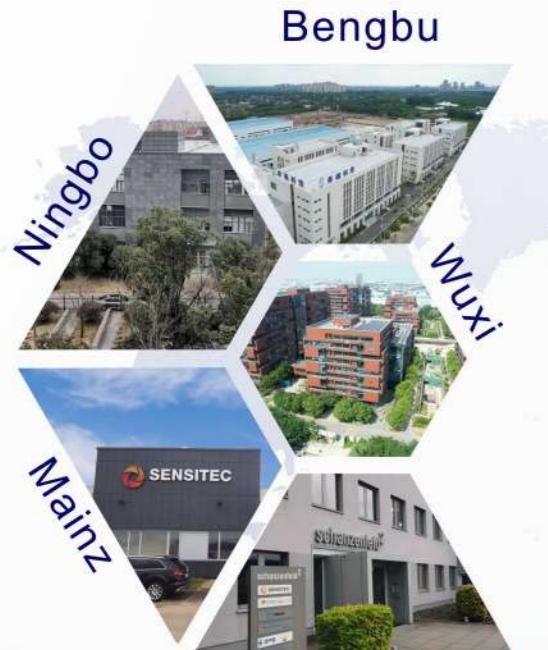
Wafer capacity 500 million pcs/year

**100 Mpc**

2022 current sensor production capacity exceeds 100 million

**250 Mpc**

Cumulative current sensor shipments of approximately 250 million units per year



○ **Wuxi**  
 R&D & Headquarter

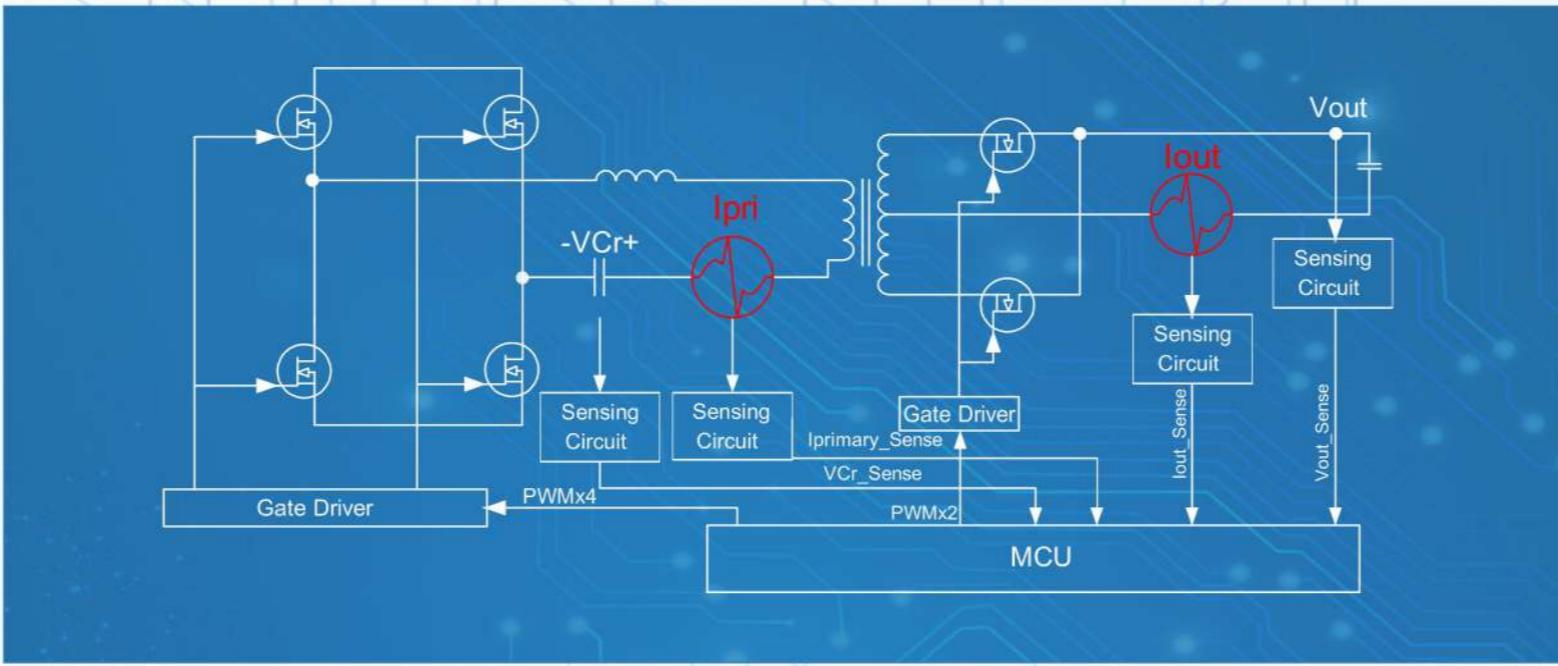
○ **Bengbu**  
 Production for Current Sensor

○ **Ningbo**  
 R&D & Production for Current Sensor

○ **Mainz**  
 Waferfab for magnetic sensor

○ **Wetzlar**  
 R&D Center for magnetic sensor

## High-frequency Current Detection



### — PRODUCT —

#### ◎ Features

- Very high frequency band width, 2 MHz
- Very fast response time, 50 ns
- Coreless design enables the small dimensions
- OCD (over current detection) function available
- Common-mode field rejection. (core-less design)



◎ Electrical parameters

Product	Out Voltage	Cur- rent	Vcc (V)	U <sub>ESD</sub> (kV)	Ud (kV)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (μs)	Acc. (%FS)
STK-616KMF	○		3.3, 5	4	3.6	40~65	40~65	1000	0.5	3
STK-616ZMF	○		3.3, 5	4	3.6	20~50	20~50	2000	0.05	3.5
STK-616TMF	○		3.3, 5	4	3.6	40~65	40~65	1500	0.3	3.5
STK-600/F	○		3.3, 5	4	4	50	200~400	800	0.5	3.5
STK-PL/AG	○		5	4	5	10~50	25~125	1000	0.2	2
STK-HD/SG	○		5	4	4	3~10	7.5~25	600	0.4	1.5
STK-HD/K/G	○		5	4	4	20~50	50~125	1000	0.4	1.5
STK-HD/P/G	○		3.3, 5	4	4	5~30	12.5~75	1000	1.0	3
STB-LF/G		○	±15	4	4	100	200	1000	0.2	3
STB-HO/B	○		5	4	4	30~130	75~350	1000	0.2	3