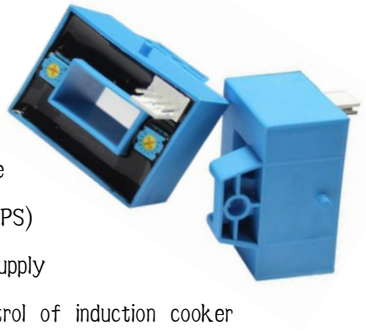
THD_BS15D4H



Product introduction:

- Power supply: ± 12V ~ ± 15V DC
- Hall effect principle — open loop current sensor;
- The primary and secondary of the current sensor are insulated and can measure DC, AC, pulse, etc;

Application:

- Application on Inverter
- AC/DC variable speed drive
- Switching power supply (SMPS)
- UPS uninterruptible power supply
- Current monitoring and control of induction cooker

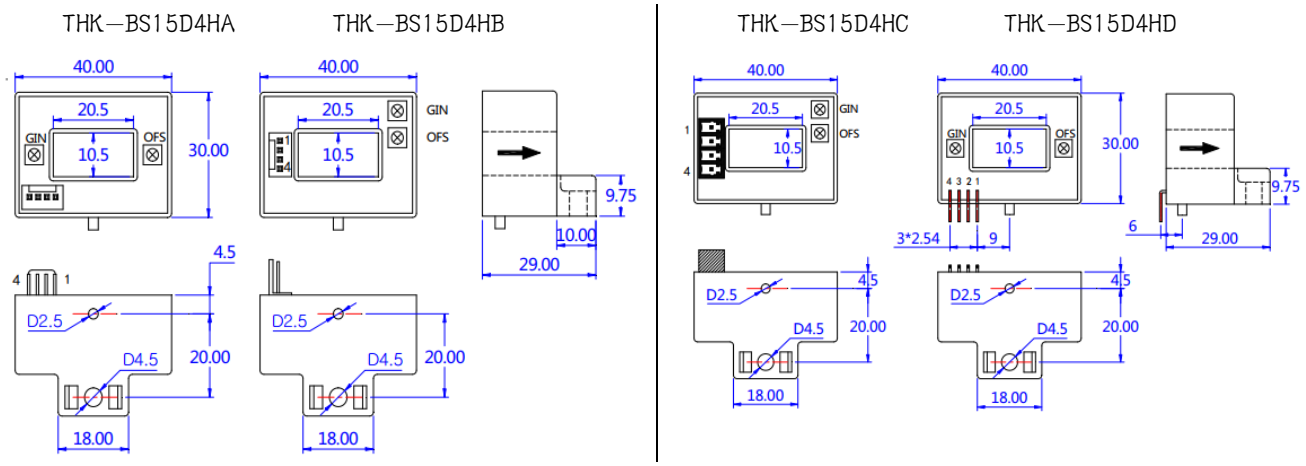
Electrical characteristics:

Parameter	Symbol	THK50 BS15D4H	THK100 BS15D4H	THK200 BS15D4H	THK300 BS15D4H	THK400 BS15D4H	THK600 BS15D4H
Rated current	I_{PN}(A)	50	100	200	300	400	600
Measuring range	I_P(A)	0～±150	0～±300	0～±600	0～±900	0～±900	0～±900
Output voltage	V_O(V)	±4.0*(I_P/I_{PN}),DC					
Load resistance	R_L(kΩ)	>1.0					
Working power supply	V_C(V)	±12V～±15V DC±5%					
Insulation voltage	V_D(V)	50/60Hz, 1min, 2.5kV; RMS					

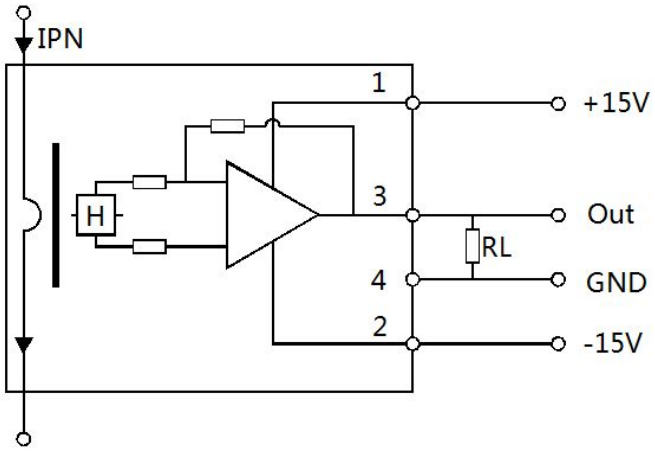
General parameters:

Project	Condition	Date	Unit
Accuracy X_G	@ I_{PN},T=25℃	<±0.5	%
Offset voltage V_{OE}	@ I_P=0,T=25℃	<±20	mV
Voltage offset temperature drift V_{OT}	@ I_P=0,−40～+85℃	<±1.0	mV/℃
Hysteresis offset voltage V_{OH}	@ I_P=0,after 1*I_{PN}	<±20	mV
Linearity εr		≤0.5	%FS
Follow accuracy di/dt		>100	A/μs
Response time tra	@ 90% of I_{PN}	<3.0	μs
Operating bandwidth B_W	−3dB	DC−20	kHZ
Working temperature T_A		−40～+85	℃
Storage temperature T_S		−55～+125	℃
Static power consumption I_C		15+Is	mA
Product weight m		65	g
Shell material	PBT material containing 30% glass fiber, flame retardant grade: UL94— V0;		
Standard	IEC60950—1:2001 EN50178:1998 SJ20790—2000		

Structural drawing: (mm)



Connection diagram:



Remarks:

1. When the measured current passes through the primary pin of the sensor, there is a corresponding voltage signal output at the output end;(Note: wrong wiring may damage the sensor)

2. Products with different rated current can be designed according to the requirements of customers, and the output voltage of the sensor can be selected;

3. When the busbar is fully filled with holes, the dynamic performance is the best;

4. The temperature of primary conductor shall not exceed 100℃;