

正角电子™



B2N 闭环型霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

B2N series current sensor is a closed loop device based on the measuring principle of the hall effect and null balance method, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC, AC or pulsed currents.



电参数 Electrical data (Ta=25°C ± 5°C)

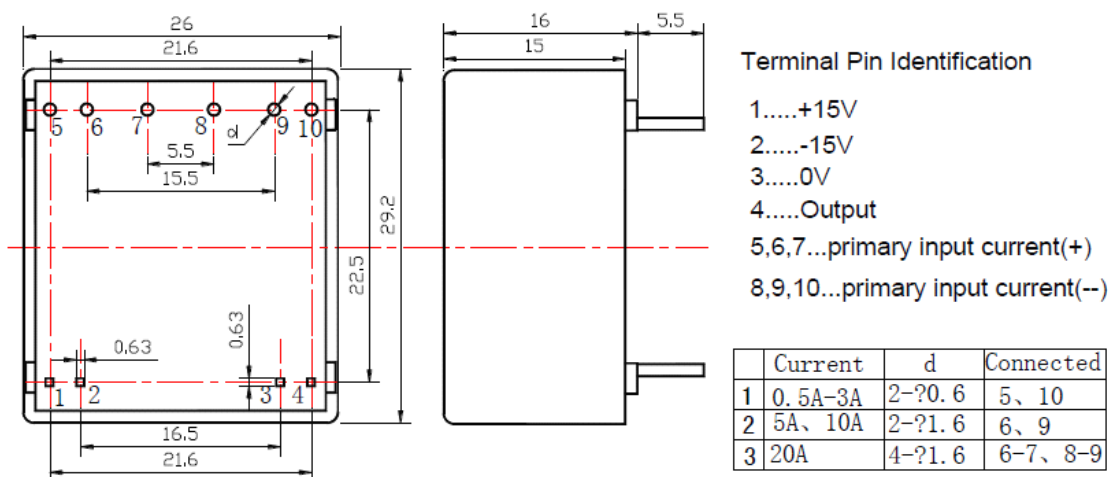
Type	B2N-0.5A	B2N-1A	B2N-2A	B2N-5A	B2N-10A	B2N-20A	单位 Unit
额定输入电流 (I _{pn}) Rated current (I _{pn})	0.5	1	2	5	10	20	A
测量电流范围 (I _p) Measure range (I _p)	1	2	4	10	20	30	A
匝比 (N _p /N _s) Turns ratio(N _p /N _s)	30: 1500	15: 1500	8: 1600	3: 1500	2: 2000	1: 2000	T
内接取样电阻 Internal resister	400	400	400	400	400	400	Ω
额定输出电压 Rated output	@I _p = ± I _{pn} ± 4 ± 0.5%						V
电源电压 Supply voltage	± 12, ± 15						V
功耗电流 Power Consumption	≤ 20 + I _p X(N _p /N _s)						mA
零点失调电压 Zero offset voltage	@I _p =0 ≤ ± 20						mV
失调电压温漂 Offset voltage drift	@ -40~+85°C ≤ ± 0.5						mV / °C
线性度 Linearity	@I _p =0- ± I _{pn} ≤ 0.1						%FS
响应时间 Response time	@100A/μ S, 10%-90% ≤ 1						μS
绝缘电压 Galvanic isolation	@ 50HZ, AC, 1min 2.5						KV

B2N 系列闭环型霍尔电流传感器
B2N Series Closed Loop Mode
Hall Effect Current Sensor

应用 Applications

- 交流变频驱动器
- AC variable speed drives
- 直流电机驱动静态转换器
- Static converters for DC motor drives
- 通讯电源
- Battery supplied applications
- 不间断电源 UPS
- Uninterruptible Power Supplies (UPS)
- 开关电源
- Switched Mode Power Supplies (SMPS)
- 电焊机
- Power supplies for welding applications

结构参数 Mechanical dimension(for reference only)



Remarks:

1. All dimensions are in mm.
2. General tolerance ± 1 mm.

使用说明 Directions for use

1. 当待测电流从传感器穿过，即可在输出端测得电压大小。(注意：错误的接线可能导致传感器损坏)
 When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor)
2. 可按用户需求定制不同额定输入电流和输出电压的传感器。
 Custom design in the different rated input current and the output voltage are available.

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执行标准 Standards

- UL94-V0.
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

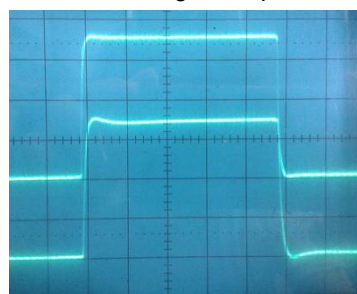
总体参数 General data

	数值 Value	单位Unit
工作温度 (TA) Operating temperature	-40 to +85	℃
储存温度 (TS) Storage temperature	-40 to +125	℃
毛重(约) (M) Mass(approx)	22	g

特性图 Characteristics chart

脉冲电流信号响应特性

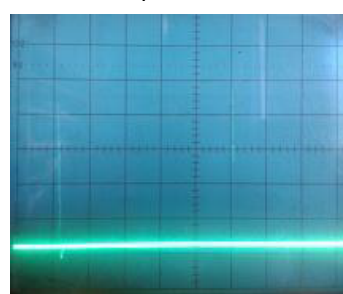
Pulse current signal response characteristic



输入信号
(Input signal)
输出信号
(Output signal)

抗脉冲电压干扰特性

Effects of impulse noise



输出电压
(Output voltage)