BADGER GLOBAL COMPONENTS
1510 Sylvania Ave., WI 53177 262-884-9087
Fax 262-884-9082 sales@badgerglobal.net

Hall Current Sensor- TE101-OCA I_{PN}=100A

For the electronic measurement of currents:DC,AC,pulsed,mixed, with a galvanic isolation between the primary(high power) circuit and the secondary(electronic) circuit.

RoHS COMPLIANT

• Operating performance (AT =25℃)

Primary nominal r.m.s. current	I_{PN} (A)	100	A
Primary current measuring range	I_P (A)	0~±300	A
Supply voltage	V_{CC}	4 (±5%)	V
Output voltage	V_{OUT}	100 ±15% @±I_{PN}, R_L= 10KΩ	mV
Current consumption	I_C	≦±5.85 typ	mA
Offset voltage	V_O	＜±7 @I_P=0,T_A=25℃	mV
Thermal drift of Vo	V_{OT}	≦±0.5	mV/℃
Thermal drift of V_{OUT}	TCε$_G$	＜±0.04	%/℃
Response time	t_r	＜5	μs
Linearity	ε$_L$	≦±2 @0~±I_{PN}	%
Accuracy	X	±15 @I_{PN}	%
Hysteresis offset voltage	I_{OH}	≦±10 @±I_{PN}→0	mV
Isolation voltage	V_d	3 @50(60)HZ/1min	KV
Frequency bandwidth	f	0~50	KHz

• General data

Operating temperature	T_O	-25～+85℃	
Storage temperature	T_S	-40～+85℃	
Mass	m	6.5	g

• Applications

◆AC variable speed drives
◆DC motor drives
◆Battery supplied applications
◆Switched Mode Power Supplies(SMPS)
◆Uninterruptible Power Supplies(UPS)
◆Power supplies for welding applications

• Advantages

◆Low insertion losses
◆Small size and space saving
◆Easy mounting
◆High immunity to external interference

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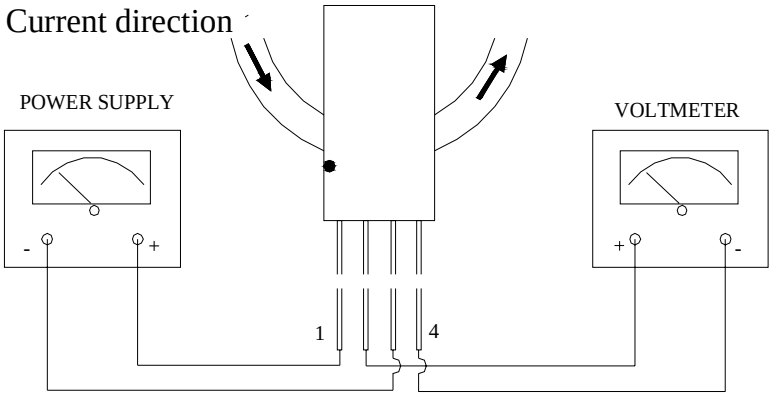
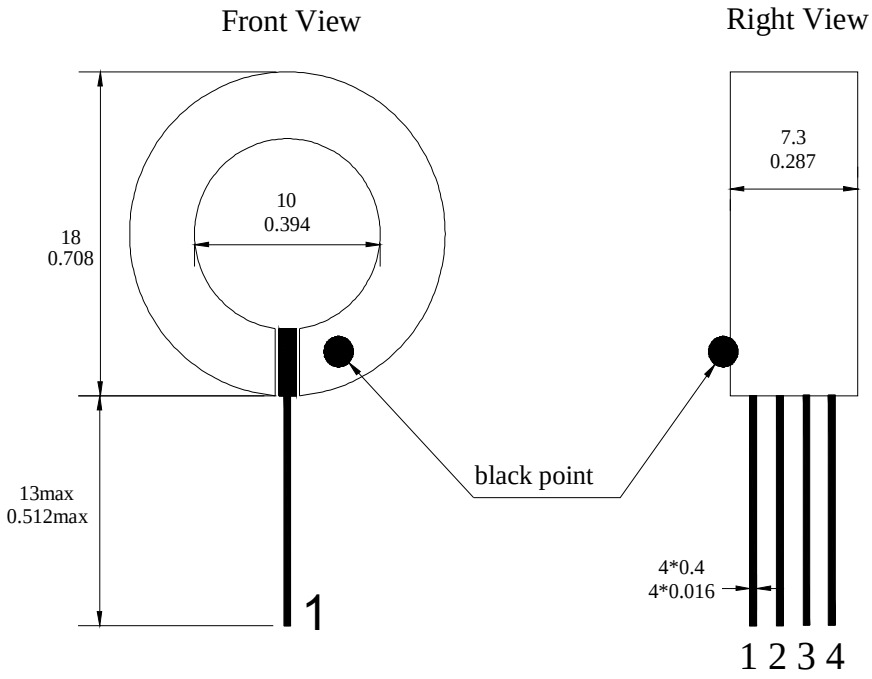
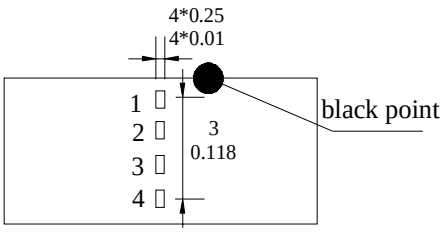
● Connection



● Dimensions (Unit:mm/inch)





Bottom View

Secondary terminals	
terminal 1	+VCC
terminal 2	OUTPUT+
terminal 3	GND
terminal 4	OUTPUT-

Tol：±0.3mm/0.012inch

● Remarks

◆V_{OUT} is posit

◆Temperature

◆This is a standard model. For different versions(supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.)please contact us.