

Hall Current Sensor TR101..102-OCS **$I_{PN}=100..1000A$**

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.



● **Operating performance (AT =25 °C)**

Performance	Model	TR101 OCS	TR201 OCS	TR301 OCS	TR401 OCS	TR501 OCS	TR601 OCS	TR102 OCS
Primary nominal r.m.s. current	I_{PN} (A)	100	200	300	400	500	600	1000
Primary current measuring range	I_P (A)	0~±300	0~±600	0~±900	0~±1000	0~±1000	0~±1000	0~±1000
Output voltage	V_{OUT}			±4				V
Supply voltage	V_{CC}				±15(±5%)			V
Current consumption	I_C			<25				mA
Linearity	ϵ_L				≤±0.5 @0...± I_{PN}			%
Accuracy @ $I_{PN}, V_C=±15V, T_A=25^{\circ}C$, X				±1				%
Offset voltage @ $I_P=0, TA=25^{\circ}C$	V_O			<±10				mV
Thermal drift of V_O	V_{OT}			≤±1				mV/°C
Thermal drift of V_{OUT}	$TC\epsilon_G$			≤±0.05				%/°C
Response time	t_r			<3 @90% of I_P				μs
di/dt accurately followed	di/dt			50				A/μs
Hysteresis offset current	V_{OH}			≤±10 @±3 I_{PN} →0				mV
Isolation voltage	V_d			3 @50(60)Hz/1min				kV
Isolation resistance	R_{IS}			500				MΩ
Frequency bandwidth	f			0~50				KHz

● **General data**

Operating temperature	T_O	-25~+85	°C
Storage temperature	T_S	-40~+100	°C
Mass	m	230	g
Note	Insulated plastic case recognized according to UL 94-V0		

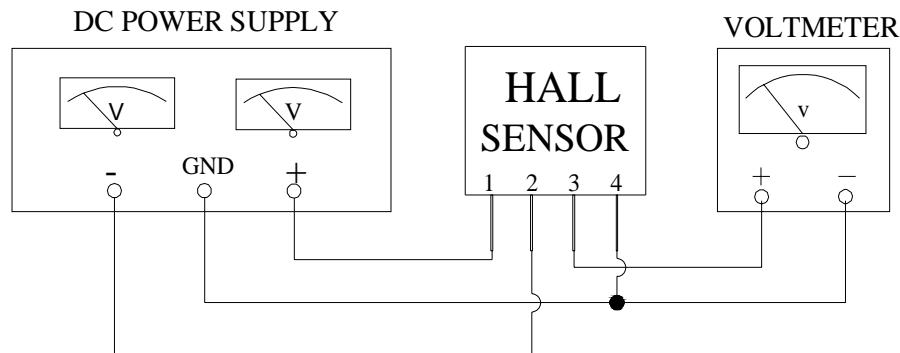
● **Applications**

- | | |
|---|---|
| ◆ AC variable speed drives and servo motor drives | ◆ Static converters for DC motor drives |
| ◆ Battery supplied applications | ◆ Switched Mode Power Supplies(SMPS) |
| ◆ Uninterruptible Power Supplies(UPS) | ◆ Power supplies for welding applications |

● **Advantages**

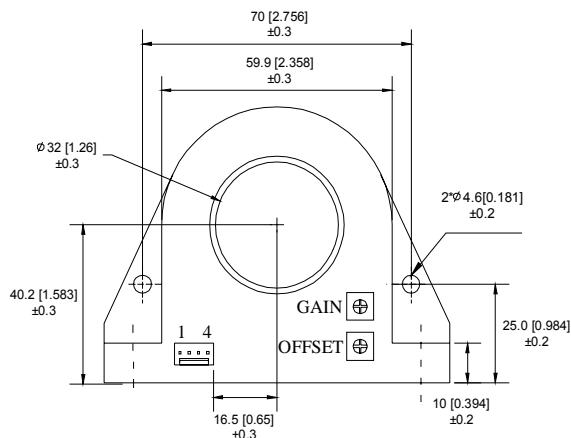
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|-----------------------------|--|
| ◆ Low temperature drift | ◆ Only one design for wide current ratings range |
| ◆ Low power consumption | ◆ High immunity to external interference |
| ◆ Very low insertion losses | ◆ Current overload capability |

● Connection

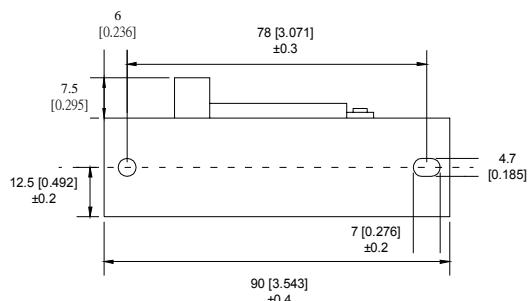
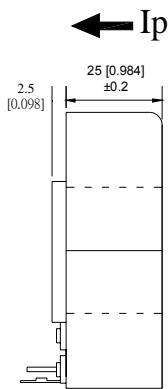


● Dimensions (unit: mm/inch)

Front View



Right View



Bottom View

Secondary terminals

Terminal 1	+15V
Terminal 2	-15V
Terminal 3	OUTPUT
Terminal 4	GND

Connection of secondary
Molex 22-01-1042

● Remarks

- ◆ V_{OUT} is positive when I_p flows in the direction of the arrow.
- ◆ Temperature of the primary conductor should not exceed 100°C.
- ◆ These are standard models. For different versions(supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.)please contact us.

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