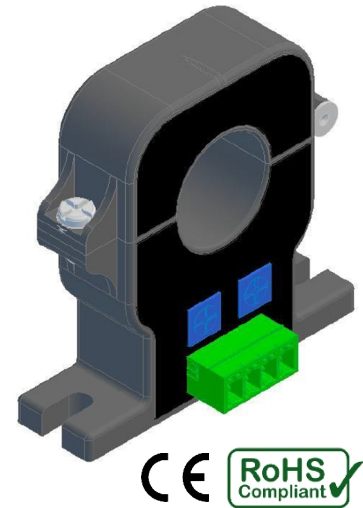


The **MLG-HE9** Series of split core Hall Effect current sensors are suited for non-contact measurement of AC & DC currents

Features

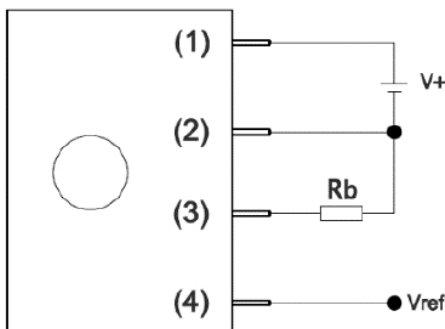
- **Split core** for easy measurement of existing systems
- **50A to 500A** models available
- **0.78" (20mm) aperture** allows for large diameter current conductors
- Ability to measure **bi-directional current**
- **Pluggable** screw terminals
- Panel mountable
- Single 5Vdc supply
- **Voltage output**
- Open loop current sensor
- **5 Year Warranty**



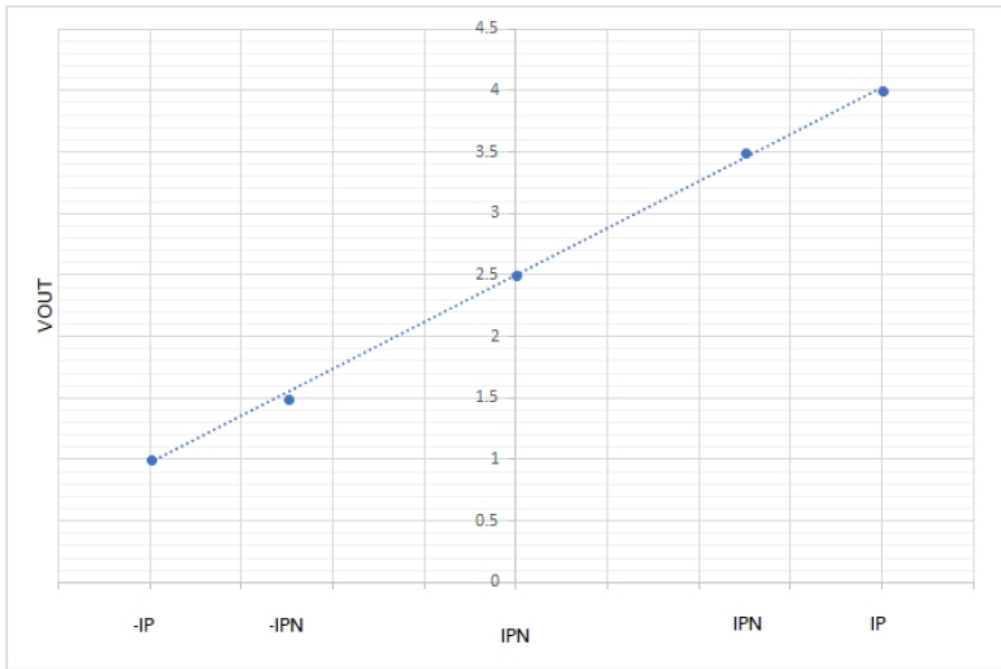
Model Numbers

Measurlogic Part Number	Description	Primary Nominal Current I_{PN} (A)	Primary Measuring Current I_P (A)
CTRF-0909	MLG-HE9-0-004-5-B-SP	50A	± 100A
CTRF-0911	MLG-HE9-1-004-5-B-SP	100A	± 200A
CTRF-0913	MLG-HE9-2-004-5-B-SP	200A	± 400A
CTRF-0915	MLG-HE9-3-004-5-B-SP	300A	± 600A
CTRF-0917	MLG-HE9-4-004-5-B-SP	400A	± 800A
CTRF-0919	MLG-HE9-5-004-5-B-SP	500A	± 800A

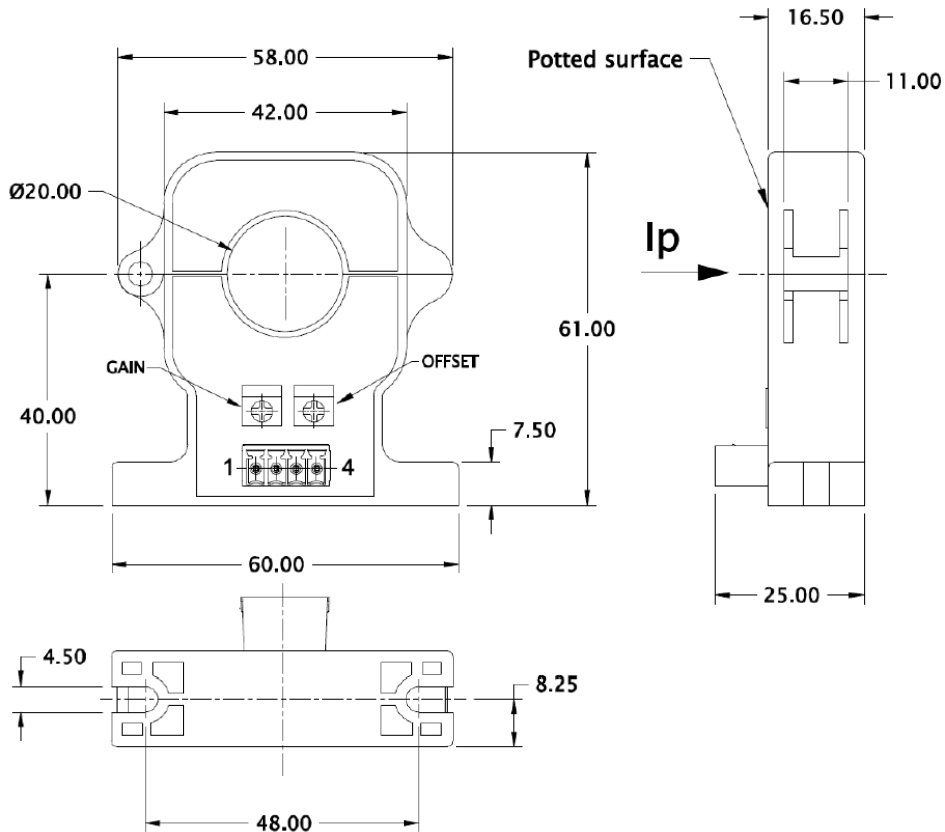
Connection Diagram



Input / Output Characteristics



Mechanical Dimensions (mm) – tolerance $\pm 0.5\text{mm}$



Technical Specifications

Parameter	Symbol	Condition	Min.	Typical	Max	Unit
Burden Resistance	R_b			2000 (min)		Ω
Voltage Output @ I_{PN}	V_{out}	@ $\pm I_{PN}$, $R_b = 10k\Omega$ @ $25^\circ C$		2.5 ± 1.0		V
Supply Voltage ($\pm 5\%$)	$\pm U_c$	Operating @ 12Vdc reduces the measuring range		+ 5.0		V
Current Consumption @ +5Vdc	I_{out}			1.8 (typical)		mA
Overall Accuracy @ I_{PN}	X_G	@ $25^\circ C$		<2.0		%
Linearity Error	Σ_L	-40 to $85^\circ C$		<1.0		%
Output offset Voltage @ $I_P = 0$	V_{off}			$V_{ref} \pm 0.025$		V
Hysteresis offset Voltage	V_{OH}	@ $I_P = 0$ after the primary current of I_{PN}	<-1		<+1	mV
Temperature coefficient of V_{out}	TV_{OE}	-40 to $85^\circ C$		± 0.1		% of rdg/K
Response time @ 90% I_{PN}	t_{ra}			<5		μS
Frequency bandwidth @-3db	BW	-3dB, small signal	0	DC to 20	25	kHz
di/dt accurately followed	di/dt			>50		A / μS
Operating Temperature	T_A		-40	-25 to +85	+105	$^\circ C$
Storage Temperature	T_S		-50	-40 to +100	+105	$^\circ C$
Mass	M			77		g

Maximum ratings

Parameter	Symbol	Value	Unit
Maximum Supply voltage (working) -40 to $85^\circ C$	$\pm U_c$	+5.0	V
Primary conductor temperature	T_S	85	$^\circ C$
Maximum steady state primary current -40 to $85^\circ C$	I_{PN}	50 to 500	A
Impulse withstand voltage 1.2/50 μS	V_w	7.5	kV
RMS Voltage for AC Insulation test, 50hz for 1 minute	U_d	3.0	kV
Comparative Tracking Index (CTI)		275	
Insulation resistance	R_{IS}	>1000	M Ω

** Specifications subject to change.