I_{pn} = 1500A

Features
- Split core type
- Open loop current sensor
- Voltage output

Applications
- Used for measurement of electric DC current
- Pulsed in electric & electronic equipment

Advantage
- Good linearity
- No insertion losses
- Low power consumption

Application domain
- Commercial
- Industrial

Standards
- EN 50178
- UL508

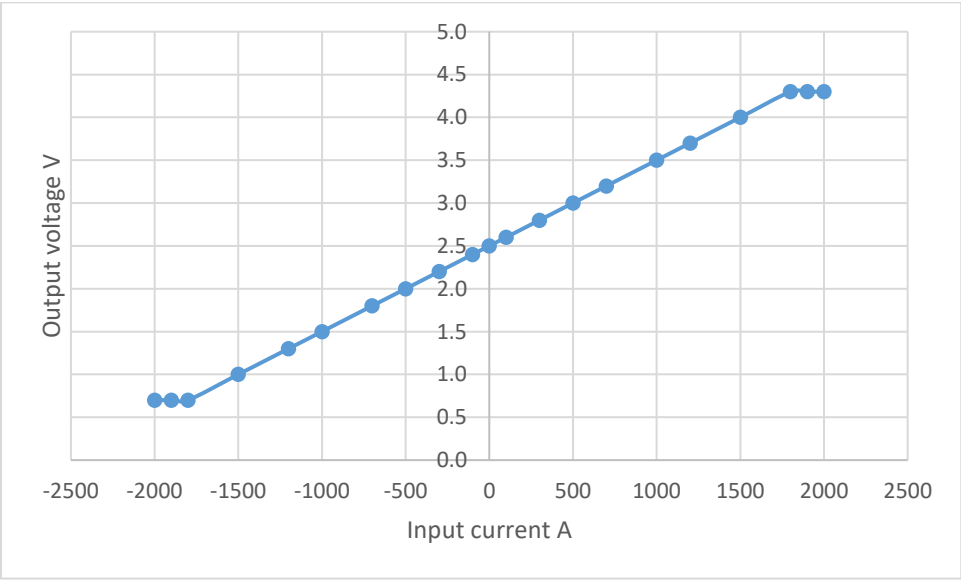
Insulation Characteristics

Parameters	Symbol	Value	Units
Dielectric strength between primary and secondary terminals,50Hz, 60 seconds	V_d	5.5	kV
Comparative tracking index	CTI	250	V
Insulation resistance at 500 VDC	R_{IS}	>100	MΩ
Creepage distance		61.50	mm
Clearance distance		40.00	mm

Specifications (Unless otherwise specified temperature is 25°C)

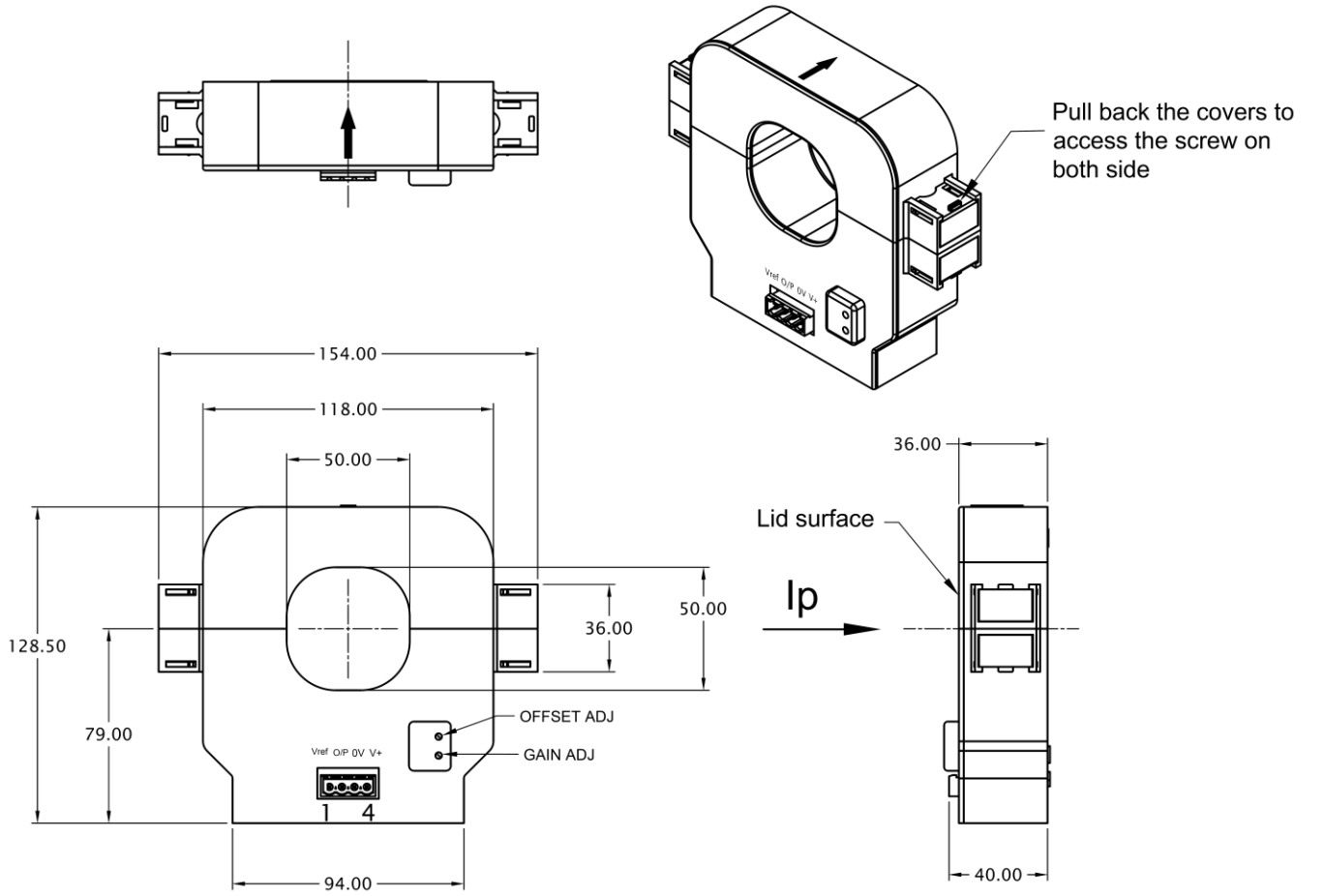
Parameters	Symbol	Condition	Min	Typ	Max	Units
Input current nominal	I_{pn}			1500		A
Input current measuring range	I_p		-1800		+1800	A
Burden resistance	R_b		10			kΩ
Output offset voltage	V_{off}	at I_P = 0		2.5± 0.025		V
Reference voltage	V_{ref}			2.5 ± 0.025		V
Output voltage	V_{out}	at ±I_{pn}, Rb = 10kΩ,		2.5 ± 1.5		V
Output sensitivity	V_{sens}			1.0		mV/A
Supply voltage (± 5%)	V_s		+9.0		+18.0	V
Current consumption	I_c	at + 9.0 ....18.0V		18		mA
Accuracy at I_{pn} (Excluding offset)	X_G			± 1		%
Linearity error	Σ_L	-25 to +85 °C		0.5		%
Temperature coefficient of V_{out}	TV_{out}	-25 to +85 °C		500		ppm/k
Reaction time at 90% Of I_{pn}	t_{ra}			---		
Frequency bandwidth at -3db	BW			DC		
Output lowpass filter cut-off frequency	f_c			1.4		Hz
AC attenuation at 1500A		at 50Hz		-24		dB
di/dt accurately followed	di/dt			---		
Ambient operating temperature	T_A			-25 to +85		°C
Ambient storage temperature	T_S			-40 to +100		°C
Mass	m			1.0		kg

Input & Output Characteristics

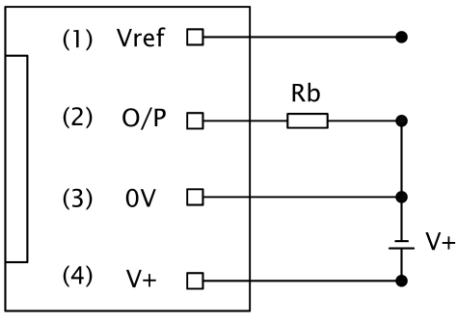


Mechanical dimensions

General Tolerance ± 1.0 mm	
All dimensions are in mm.	Scale - NTS



Connection Diagram



- Connector on the product: Connector header, part no- 1755752, Phoenix Contact
- Suggested mating connector: Connector housing, part no-1757035, Phoenix Contact
- It is recommended to centrally locate the current carrying conductor or completely fill the central opening for optimum performance
- Output increases when current (Ip) flows in the direction of arrow
- Ensure proper connection of power supply to avoid damage to the sensor

Safety

- This Sensor must be used in electric/electronic equipment with respect to applicable standards and safety requirements in accordance with the manufacturer's operating instructions.

- Caution, risk of electrical shock
- When operating the Sensor, certain parts of the module can carry hazardous voltage (eg. primary busbar, power supply).
- Ignoring this warning can lead to injury and/or cause serious damage.
- A protective housing or additional shield could be used.
- Disconnecting the main power must be possible
- Over currents (»I_{PN}) can cause an additional voltage offset due to magnetic remanence.
- The temperature of the primary conductor shall not exceed 100 ˚C.
- This Sensors may only be used in electrical or electronic systems which fulfil the relevant regulations (Standards, EMC Requirements)
- Pay attention to protect non-isolated high-voltage current carrying parts against direct contact (e.g. with a protective housing)
- When installing the sensor, ensure that the safe separation (between primary circuit and secondary circuit) is maintained over the whole circuits and their connections.

General information:

Electrohms the reserves right to make modifications on products for improvements without prior notice.