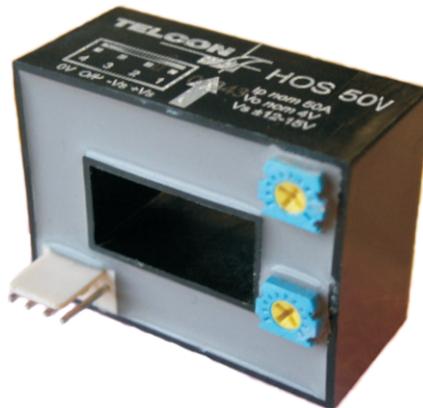




Speciality Magnetic Components  
Qualified to ISO 9001:2008

## Open Loop Hall Effect Current Transformer Type HOS-V

---



---

The HOS-V series are Open Loop Hall Effect Current Transformers covering the range of 50A to 600A. Working from a single +5V supply, the product provides a voltage output which is galvanically isolated from the primary conductor. Designed to be panel mounted, the HOS-V series is controlled via an industry standard connector.

---

### Features

- Low Supply Current Consumption
- 5kV Proof Stress
- Panel Mounting
- Designed in Quality

### Applications

- Automotive
- Variable Speed Drives
- D.C. Power Supplies
- UPS Systems

### Benefits

- Reduced Power Supply Costs
- Useable with Bare Primary Conductors
- Horizontal or Vertical Mounting
- High Reliability

- Power System Monitoring
- Welding Equipment
- Traction
- Switch Mode Power Supplies

# TECHNICAL DATA

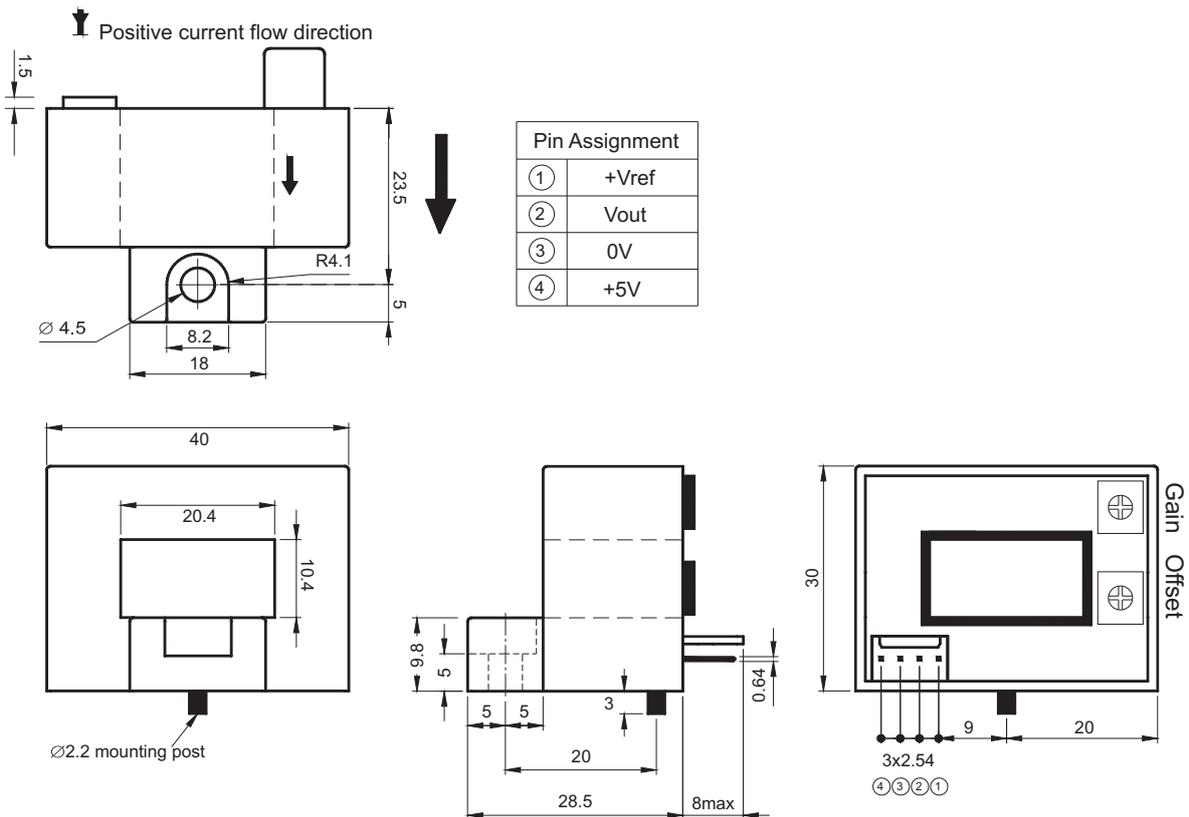
<b>Product Type</b>	<b>HOS-V</b>	<b>50V</b>	<b>100V</b>	<b>150V</b>	<b>200V</b>	<b>300V</b>	<b>400V</b>	<b>600V</b>				
<b>Nominal Primary Current (I<sub>PN</sub>)</b>		50	100	150	200	300	400	600				
<b>Primary Current measuring range</b>	0 to	±150	±300	±450	±600	±900	±1000	±1000				

## Specification

Nominal Power Supply	±5V ±5%
Supply Current	±10 mA max.
Load Resistance	1KΩ min
Output Resistance	10Ω
Output Voltage @ ± I <sub>PN</sub> R <sub>L</sub> =10kΩ	±0.625 V nominal
Isolation Resistance @ 500 Volts	1000 MΩ min.
Linearity Error <sup>2</sup>	±0.5% of I <sub>PN</sub> max.
Output Offset @ 25°C, I <sub>p</sub> = 0	±25mV max.
Hysteresis of offset at ± nominal primary current	±7.5mV max.
Output Offset Drift -25 to +85°C	± 0.3 mV/°C max.
Thermal Drift of Gain -25 to +85°C	± 0.05 %/°C max.
Response Time	3 μsec max.
di/dt following	50 A/μs min.
Bandwidth (- 3 dB)	DC to 50 kHz min.
Creepage Distance	6.5 mm max.
Clearance Distance	5 mm max.
RMS Voltage Isolation Test, 50 Hz 1min	2.5 kV

## General

Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-40 to +85°C
Weight	55g
Housing	PBT 30% Glass Filled Flammability Rating V0
Connector	Compatible with Molex 5046-04/A
Mounting	Panel Mounting
Signal Sense	Positive output obtained when current flows as shown by direction of arrow



As part of our policy of continuous improvement, we reserve the right to make modifications to this product without prior notice.