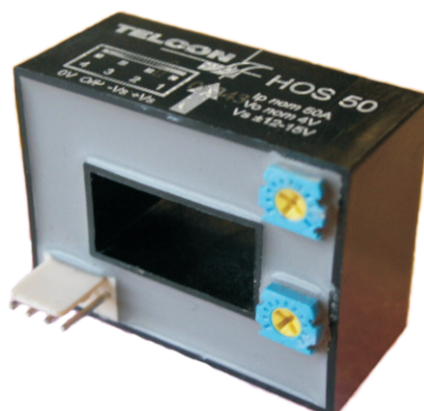


## Open Loop Hall Effect Current Transformer Type HOS

---



---

The HOS series are Open Loop Hall Effect Current Transformers covering the range of 50A to 200A. The product provides a voltage output which is galvanically isolated from the primary conductor. Designed to be panel mounted, or strapped to a bus bar the HOS series is controlled via an industry standard connector.

---

### Features

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

### Benefits

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

### Applications

- Automotive
- Variable Speed Drives
- D.C. Power Supplies
- UPS Systems
- Power System Monitoring
- Welding Equipment
- Traction
- Switch Mode Power Supplies

# TECHNICAL DATA

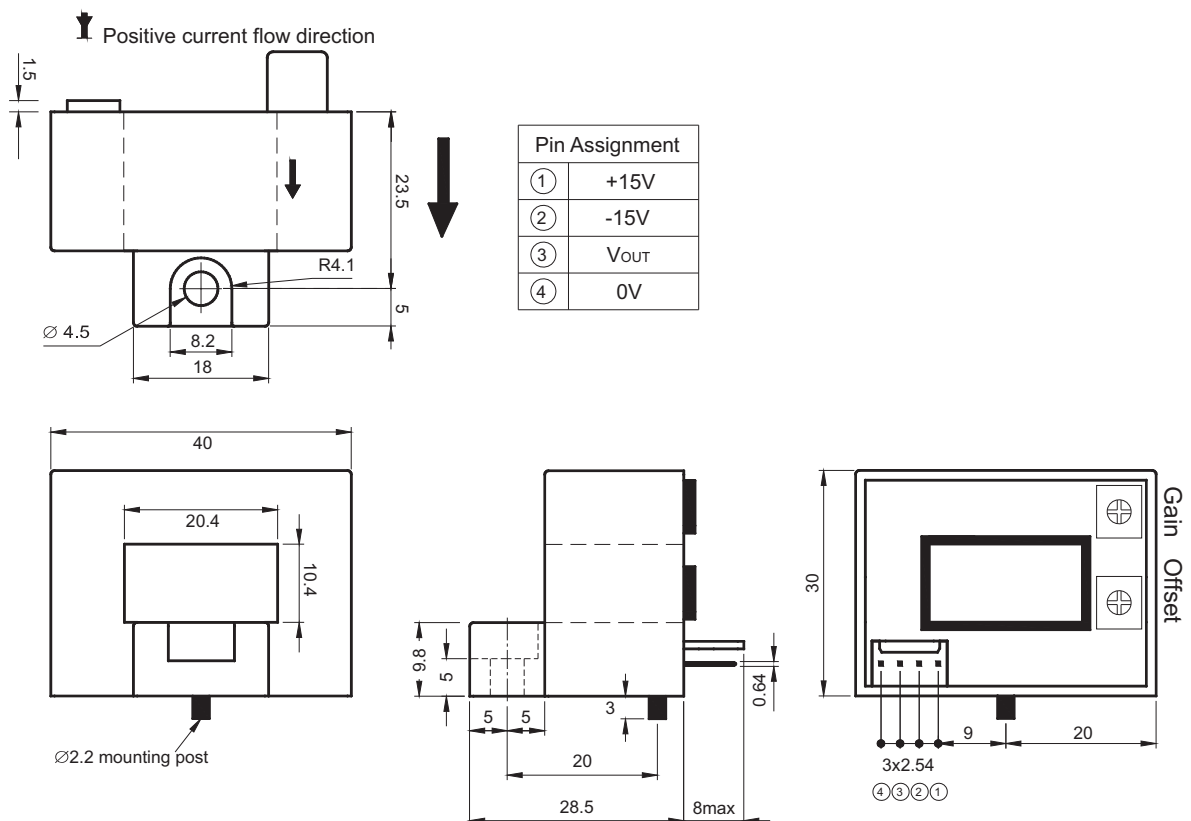
<b>Product Type</b>	<b>HOS</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>200</b>			
<b>Nominal Primary Current (I<sub>PN</sub>)</b>		50	100	150	200			
<b>Primary Current measuring range</b>	0 to	±150	±300	±450	±600			

## Specification

Nominal Power Supply	±15V ±5%
Supply Current	±15 mA max.
Load Resistance	1KΩ min
Output Resistance	100Ω ± 5%
Output Voltage @ ± I <sub>PN</sub> R <sub>L</sub> =10kΩ	±4 V nominal
Isolation Resistance @ 500 Volts	1000 MΩ min.
Linearity Error <sup>2</sup>	±1% of I <sub>pn</sub> max.
Output Offset @ 25°C, I <sub>p</sub> = 0	±35mV max.
Hysteresis of offset at ± nominal primary current	±20mV max.
Output Offset Drift -25 to +85°C	± 1 mV/°C max.
Thermal Drift of Gain -25 to +85°C	± 0.05 %/°C max.
Response Time	7 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	-15 to +80°C
Storage Temperature Range	-20 to +85°C
Weight	50g
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.