

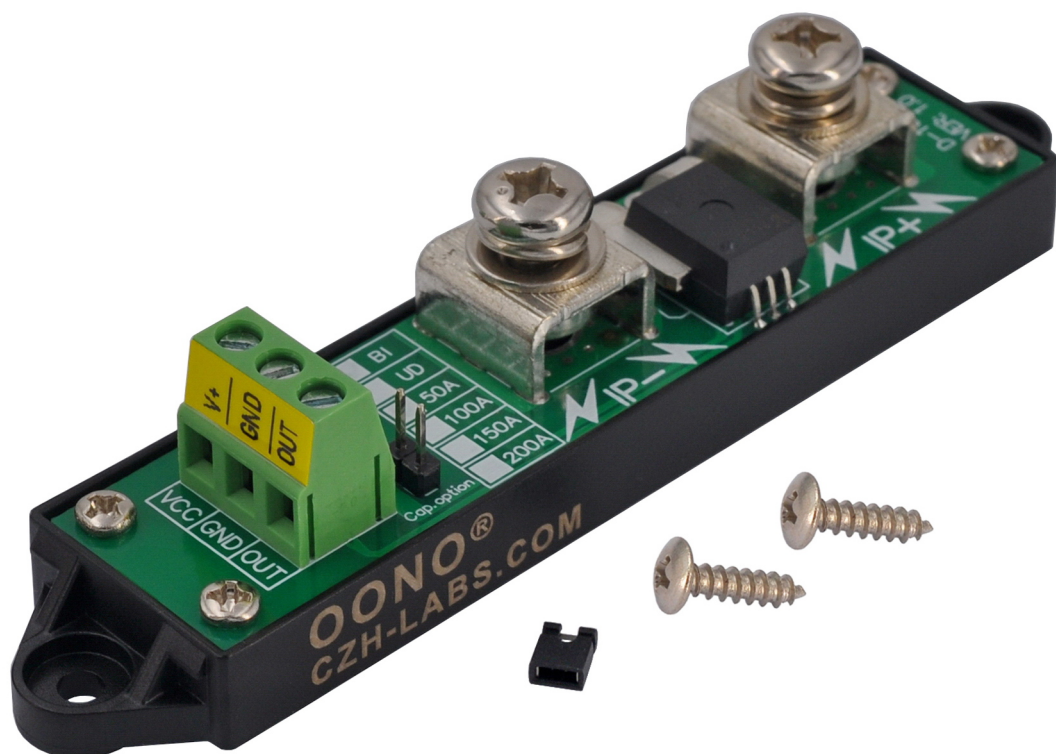
# OONO®

## CZH-LABS.com

### AC/DC 50 - 20 Amp Isolated Linear Current Sensor Module

Design based on hall-effect-based IC ACS758 ACS772 ACS773

**Model: D-1674 series**



### D-1674 Series Version List

Model	IC	Signal Side			Load Side			V-ISO	Bandwidth
		Vcc Voltage	Sensitivity	Zero-Current Output Voltage	Current Direction	Current Range	Rated Voltage		
D-1674A/B50	ACS758LCB-050B	DC 3V - 5.5V	40mV/A	1/2 Vcc	Bidirectional	±50 Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	120 kHz
D-1674A/B100	ACS758LCB-100B	DC 3V - 5.5V	20mV/A	1/2 Vcc	Bidirectional	±100 Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	120 kHz
D-1674A/B150	ACS758KCB-150B	DC 3V - 5.5V	13.3mV/A	1/2 Vcc	Bidirectional	±150Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	120 kHz
D-1674A/B200	ACS758ECB-200B	DC 3V - 5.5V	10mV/A	1/2 Vcc	Bidirectional	±200Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	120 kHz
D-1674A/U50	ACS758LCB-050U	DC 3V - 5.5V	80mV/A	1/10 Vcc	Unidirectional	50 Amp	DC / Vpk 672V	4800Vrms	120 kHz
D-1674A/U100	ACS758LCB-100U	DC 3V - 5.5V	40mV/A	1/10 Vcc	Unidirectional	100 Amp	DC / Vpk 672V	4800Vrms	120 kHz
D-1674A/U150	ACS758KCB-150U	DC 3V - 5.5V	26.6mV/A	1/10 Vcc	Unidirectional	150 Amp	DC / Vpk 672V	4800Vrms	120 kHz
D-1674A/U200	ACS758ECB-200U	DC 3V - 5.5V	20mV/A	1/10 Vcc	Unidirectional	200 Amp	DC / Vpk 672V	4800Vrms	120 kHz
D-1674B/B50	ACS772LCB-050B	DC 5V	40mV/A	1/2 Vcc	Bidirectional	±50 Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674B/B100	ACS772LCB-100B	DC 5V	20mV/A	1/2 Vcc	Bidirectional	±100 Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674B/B150	ACS772KCB-150B	DC 5V	13.3mV/A	1/2 Vcc	Bidirectional	±150Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674B/B200	ACS772ECB-200B	DC 5V	10mV/A	1/2 Vcc	Bidirectional	±200Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674B/U50	ACS772LCB-050U	DC 5V	80mV/A	1/10 Vcc	Unidirectional	50 Amp	DC / Vpk 672V	4800Vrms	200 kHz
D-1674B/U100	ACS772LCB-100U	DC 5V	40mV/A	1/10 Vcc	Unidirectional	100 Amp	DC / Vpk 672V	4800Vrms	200 kHz
D-1674B/U150	ACS772KCB-150U	DC 5V	26.6mV/A	1/10 Vcc	Unidirectional	150 Amp	DC / Vpk 672V	4800Vrms	200 kHz
D-1674B/U200	ACS772ECB-200U	DC 5V	20mV/A	1/10 Vcc	Unidirectional	200 Amp	DC / Vpk 672V	4800Vrms	200 kHz
D-1674C/B50	ACS773LCB-050B	DC 3.3V	26.4mV/A	1/2 Vcc	Bidirectional	±50 Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674C/B100	ACS773LCB-100B	DC 3.3V	13.2mV/A	1/2 Vcc	Bidirectional	±100 Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674C/B150	ACS773KCB-150B	DC 3.3V	8.8mV/A	1/2 Vcc	Bidirectional	±150Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz
D-1674C/B200	ACS773ECB-200B	DC 3.3V	6.6mV/A	1/2 Vcc	Bidirectional	±200Amp	AC/Vrms 475V, DC/Vpk 672V	4800Vrms	200 kHz

## Features:

- The item provides economical and precise solutions for AC or DC current sensing in industrial, commercial, and communications systems. Typical applications include motor control, load detection and management, switched-mode power supplies, and overcurrent fault protection. The device is not intended for automotive applications.
- This series of products are designed based on Hall-Effect-Based IC ACS758, ACS772 or ACS773. Available in unidirectional and bidirectional versions and from 50 - 200 Amps.
- Operating voltage VCC 3.3V and 5V versions are available. The red LED is used as an indicator of the operating voltage. The output signal terminal is connected to a load capacitor via a pin jumper, you can short-circuit or unplug it according to actual needs.
- Signal side terminal: Pitch 5.0mm/0.197", Wire range 26 - 12AWG / 2.5mm square, Strip length 7mm, Screws - M3.
- Load side terminal: M6 copper terminals, for M6 (US 1/4) ring or fork connectors.
- UL CE CQC certified terminal blocks, FR-4 glass fiber PCB. Mounting base: PC (Polycarbonate plastic). Screw: 304 stainless steel.

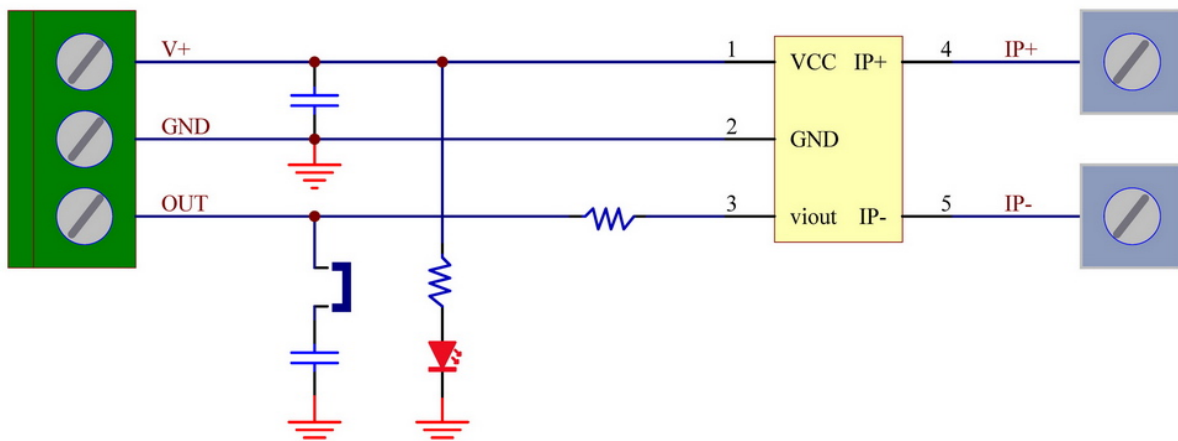
## Electrical Parameters:

- Operating Voltage: DC 5V or 3.3V
- Operating Current: 20mA (max)
- Minimum Isolation Voltage: 4800Vrms
- Load Frequency Bandwidth: DC to 120 kHz, or DC to 200 kHz
- Load Side Rated Voltage: AC/Vrms 475V, or DC/Vpk 672V
- Load Side Maximum Current: Available in 50 - 200 Amps.
- Current Direction: Unidirectional (for DC) and Bidirectional (for AC/DC) versions available.

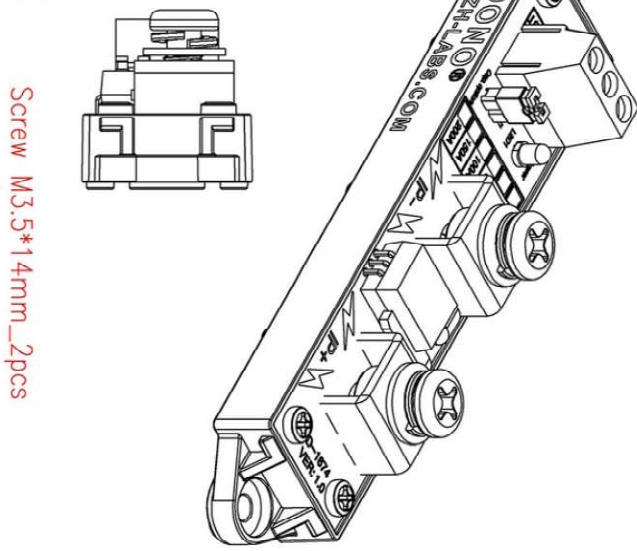
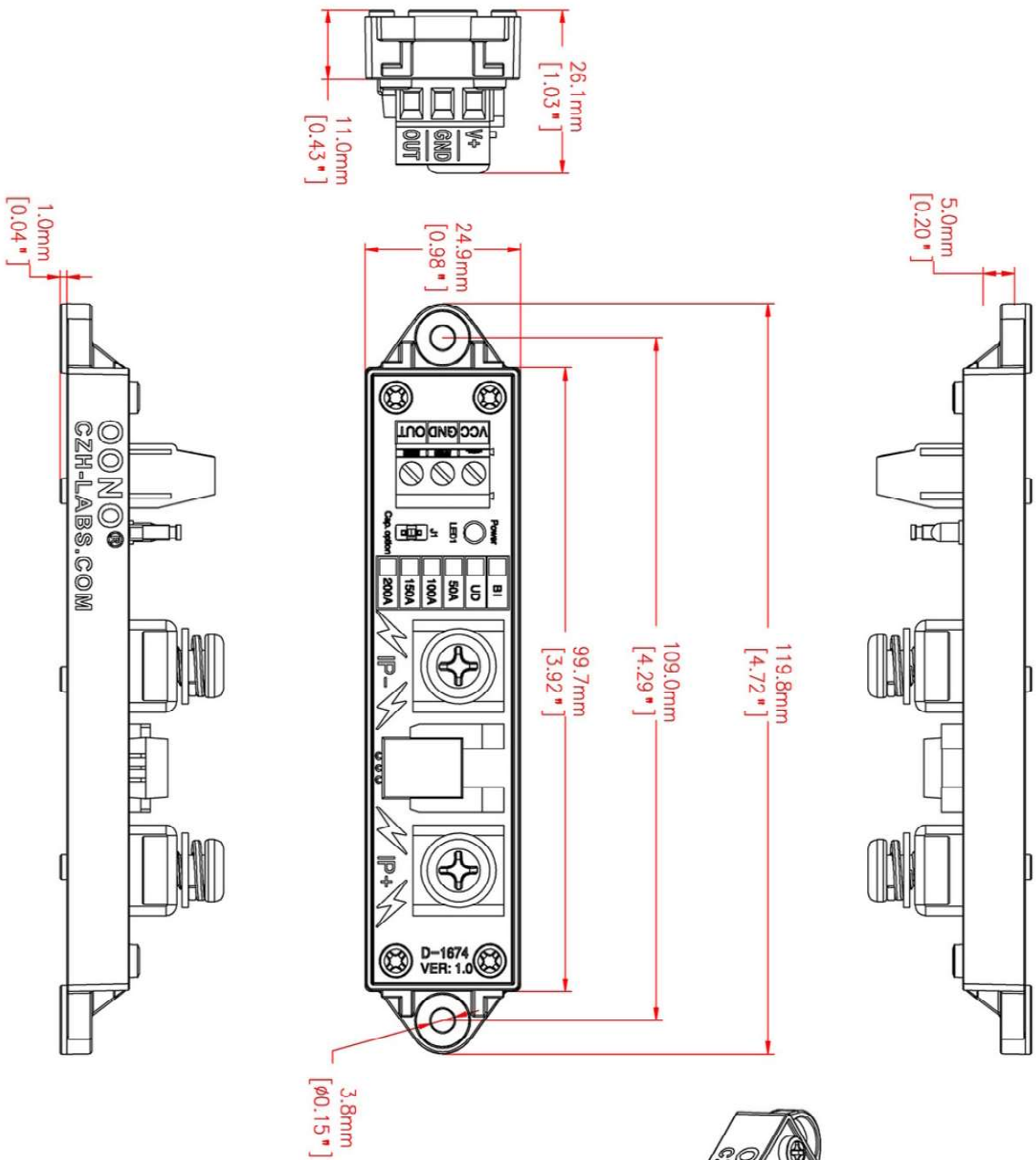
## Terminal Blocks Connects:

- V+ (VCC): Operating power input, DC5V or 3.3V
- GND: Operating power and Sensing signal ground (0V)
- OUT: Sensing signal voltage output.
- Cap Option Pin-jumper: Signal output filter capacitor, it is recommended to remove when measuring the AC load and short circuit when measuring the DC load, capacitance 10nF.
- IP+, IP-: Connect load, connected in series with the load.

## Circuit Schematic:



# Dimensions:



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MODEL NO.: D-1674	SKU: MD-D1674-1
PROJECTION:	UNIT: mm / inch