HDID-C31 series

Current Transducer

1. Brief introduction

HDID-C31 current transducer uses Hall effect(open loop principle) to measure DC current. The output signal could be small current or low voltage that can be accepted by electronic circuit. The primary input current and the output signal is highly electric isolated. This kind of transducer has a compact size but

with a Φ42mm aperture hole. It can be used in Power Utility, Telecom, Oil & Gas, welding machine and New energy fields.

★ DC current measurement ★ Good overload capacity

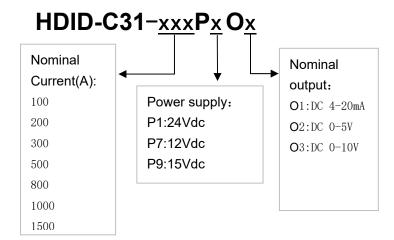
- ★ Good linearity ★ Galvanic isolation between primary and secondary circuit ★ Low power consumption
- ★ Split core

2. Order information (see right chart) Nominal Current: 100 200 300 500 800 1000 1500Adc

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Nominal output: O1:DC 4-20mA ,O2:DC 0-5V ,O3:DC 0-10V

Power supply: P1: 24Vdc P7: 12Vdc P9:15Vdc



3. Eletrical data

lpn		Primary nominal current (Arms)	100 200 300 500 800 1000 1500
lp		Primary Current, measuring range(Arms)	120% x lpn
loc		Over load capacity	3000Arms
Vsn (for output)	voltage	Secondary output (Vrms)	DC0-5V, DC0-10V etc
Isn (for output)	current	Secondary output (mArms)	DC 4-20mA,DC 0-20mA etc
X		Accuracy (Ta =+25℃)	≤1%
EL		Linearity error	≪0.5%
Vc		Power supply voltage	Pn(±5%)
Vofs/lofs		Offset voltage/Offset current (Ta =+25 $^\circ\!\mathrm{C}$)	\leq 50mV(for voltage output)/ \leq 80uA (for current output)
Tr		Bosnonso timo	< 10m2
11		Response time	\leq 10mS
f		Frequency bandwidth	DC
		•	
f		Frequency bandwidth	DC

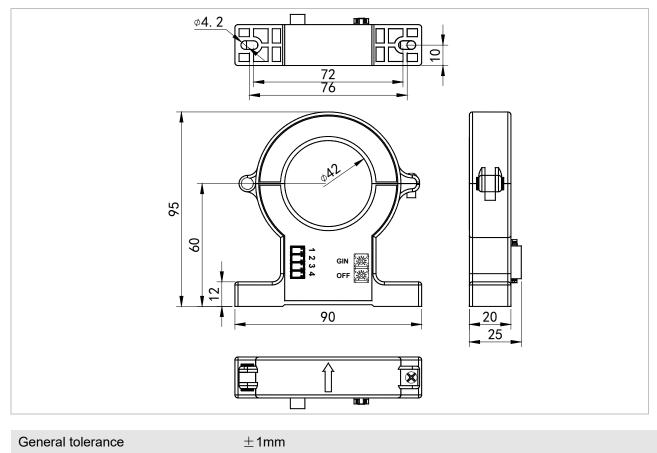
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4. General data:

Та	Ambient operating temperature	-25 - +70 ℃	
Ts	Ambient storage temperature	-40 - +85 ℃	
W	Mass	200g	
St	Standards	IEC688:1992;EN61326	
На	Ambient operating humidity	0-95% RH	
	Case material	According to UL94-V0	

5. Dimensions

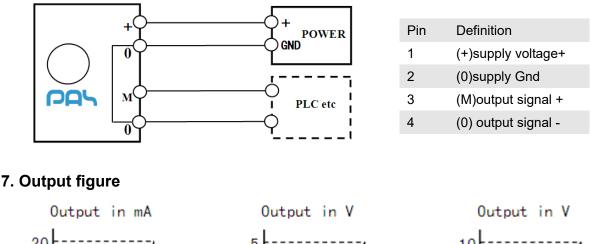


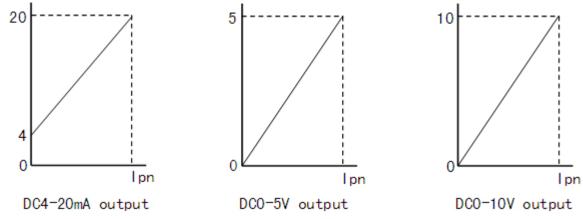
Primary hole size	Ф42mm
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Fastening	Bottom:	2 x Ф4.2mm

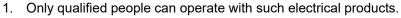
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6. Connection





8. Safety items



- 2. Wrong connection may destroy the products.
- 3. ESD protection is necessary, please follow the correct process.
- 4. Do not use in the environment with conductive dust and corrosive gas.
- 5. The Potentiometers on the product are used by PAS internal, the user can not calibrate.
- 6. Strong vibration and very high temperature may damage the products.



1. After the installation, the bus bar may be connected to the high voltage equipment, please do not touch the exposed parts of the transducers to avoid electric shock!

Note: 1.Passion technology company reserves the right to modify the datasheets at any time without previous notifications. 2.Any question about the datasheet, please contact our TCS.

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