Topstek True RMS Current Transducer TFC30P80A .. 1500A-CL420

TFC30P 80A~1500A-CL420

Features

- ◆ Highly reliable Open Loop Hall Effect device
- ◆ Clamp on split core structure
- ◆ Faster response time than temperature sensing
- ◆ Excellent linearity of the output voltage over a wide input range
- ◆ VFD and SCR type waveforms current measurement
- ◆ True RMS output
- ◆ 4-20mA current loop output
- ♦ High isolation voltage between the measuring circuit and the current-carrying conductor (AC3KV)
- ◆ Flame-Retardant plastic case and silicone encapsulant, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

Applications

- •
- ◆ Power measurement, power panel
- ◆ True RMS AC+DC current measurement

Options

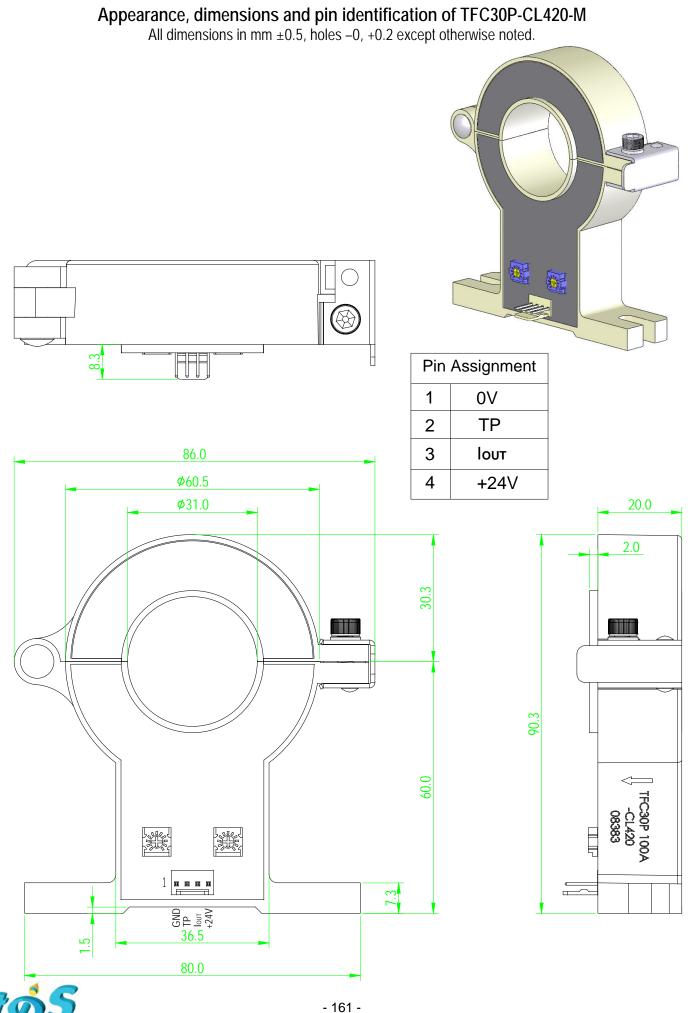
- ◆ Operating temperature range:
 70°C standard and option 85°C available
- ◆ Plastic case material: PBT+30%GF(white) standard and PC(blue) option
- ◆ Connector type: specify –E or –M. If other types of connector required, please contact factory for other possibilities.
 - -M: Molex 5045 type (2.54mm pitch)
 - -E: Euro type connector (5.08mm pitch)

Specifications

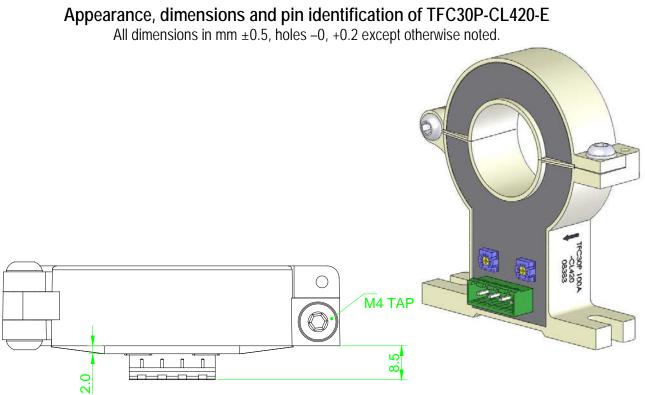
Parameter	Symbol	Unit	80A	100A	200A	300A	400A	500A	600A	1000A	1500A	
Nominal Input Current	I _{PN}	A RMS	80	100	200	300	400	500	600	1000	1500	
Max Primary Current Peak	I _{PMax}	А	±400	±400	±800	±1200	±1600	±2000	±2400	±3000	±3000	
Current Output Protocol	Іоит	mA	4-20 mA Current Loop, 4mA@ I_P =0A, 20mA@ I_P = I_{PN}									
Output Offset Current	los	mA	+4 mA									
Over-Scale Output Current	I _{OL}	mA	<32 mA									
Load Resistance	R_L	Ω	<300 Ω									
Supply Voltage	Vcc	V	+20V +32V									
Accuracy @ I _{PN}		%	Within ±1% of I _{PN} @25°C(excluding offset)									
Linearity	ρ	%	Within ±1% of I _{PN}									
Consumption Current	Icc	mA	4-20 mA (= louт)									
Response Time (90% I_{PN} Step)	T _r	μsec	<150 msec									
Frequency bandwidth (±1dB)	f_{BW}	Hz	DC to 6kHz									
Thermal Drift of Output	-	%/°C	Within ±0.1 %/°C @ I _{PN}									
Thermal Drift of Zero Current Offset	-	μΑ/°C	< ±3μΑ/°C(0-60°C), < ±6μΑ/°C(-40 70°C)									
Dielectric Strength	-	V	AC3KV X 60 sec									
Isolation Resistance @ 1000 VDC	R _{IS}	ΜΩ	>1000 MΩ									
Operating Temperature	Ta	°C		-40°C to 70°C								
Storage Temperature	Ts	°C	-45°C to 85°C									
Mass	W	g	240 g									

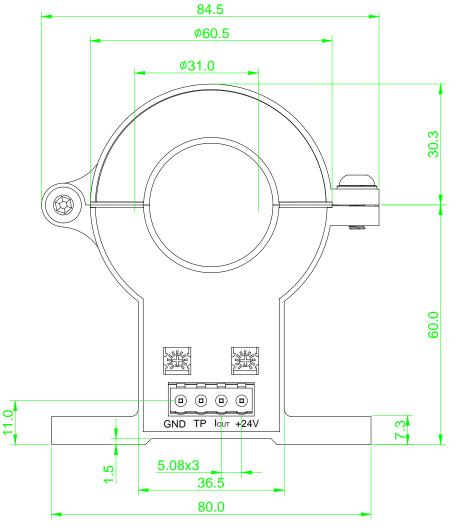


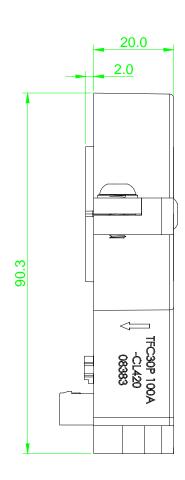
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Application Connections

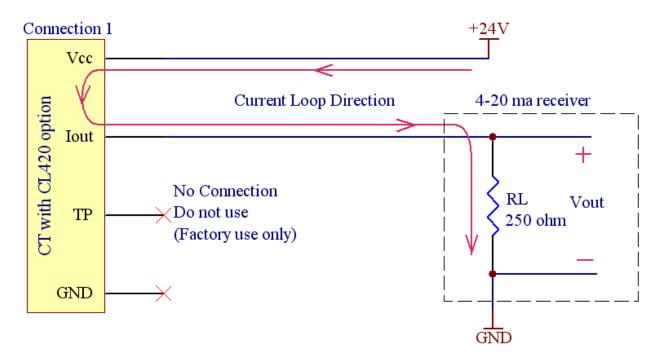
TTFC30P-CL420 can be used with two types of connections. In both cases, the GND pin have no internal connection, and TP Pin is for factory calibration only.

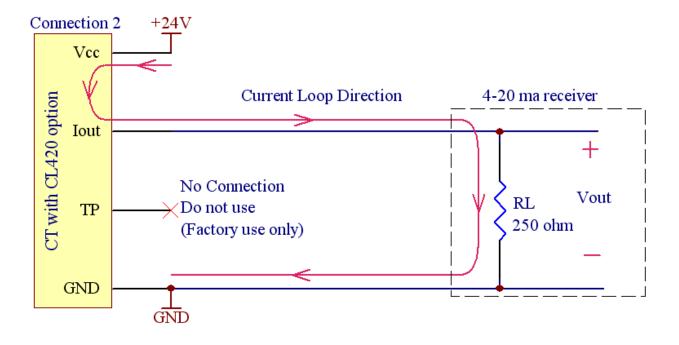
Connection 1:

The power supply is on the receiver side. Only two connector pins are used.

Connection 2:

The power supply is on the CT side. Make sure you have a proper ground connection to prevent grounding noise.









Additional Information:

한국 대리점 : ㈜디웰전자 (Diwell Electronics Co., Ltd.)

경기도 군포시 당정동 358 군포창업보육센터 202호

202, Kunpo Business Incubator Center, 358,

Dangjung-Dong, Gunpo-City, Gyeonggi-Do, South Korea

Phone: 070-8235-0820 (+82-70-8235-0820) Fax: 031-429-0821 (+82-31-429-0821)

기술 및 구매 문의 email : expoeb2@diwell.com,

dsjeong@diwell.com