Topstek Current Transducers TD25A.. TD400A



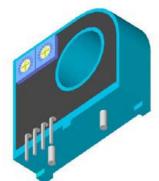
TD 25A~400A

Features

- ◆ Highly reliable Hall Effect device
- ◆ Compact and light weight
- ◆ Fast response time
- ◆ Excellent linearity of the output voltage over a wide input range
- ◆ Excellent frequency response (> 50 kHz)
- ◆ Low power consumption (12 mA nominal)
- ♦ Capable of measuring both DC and AC, both pulsed and mixed
- ♦ High isolation voltage between the measuring circuit and the current-carrying conductor (AC2.5KV)
- ◆ Extended operating temperature range
- ◆ Flame-Retardant plastic case and silicone encapsulate, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

Applications

- ♦ UPS systems
- ♦ Industrial robots
- ♦ NC tooling machines
- ◆ Elevator controllers
- ♦ Process control devices
- ♦ AC and DC servo systems
- ◆ Motor speed controller
- ◆ Electrical vehicle controllers
- ◆ Inverter-controlled welding machines
- ◆ General and special purpose inverters
- ◆ Power supply for laser processing machines
- ◆ Controller for traction equipment e.g. electric trains
- ◆ Other automatic control systems



Specifications

Parameter	Symbol	Unit	TD 25A	TD 50A	TD 75A	TD 100A	TD 125A	TD 150A	TD 175A	TD 200A	TD 250A	TD 300A	TD 350A	TD 400A
Nominal Input Current	I _{fn}	A DC	25	50	75	100	125	150	175	200	250	300	350	400
Linear Range	I _{fs}	A DC	±75	±150	±225	±300	±375	±450	±525	±525	±550	±550	±550	±600
Nominal Output Voltage	V_{hn}	V	4 V±1% at If=I _{fn} (R _L =10k Ω)											
Offset Voltage	Vos	mV	Within ±35 mV @ I₁=0, T₂=25°C											
Output Resistance	R _{OUT}	Ω	<100Ω(50Ωnominal)											
Hysteresis Error	V_{oh}	mV	Within ±35 mV @ I _f =I _{fn} →0											
Supply Voltage	V _{CC} /V _{EE}	V	±15V ±5%											
Linearity	ρ	%	Within ±1% of I _{fn}											
Consumption Current	I _{CC}	mA	±12 mA nominal, ±15 mA max											
Response Time (90%V _{hn})	Tr	μsec	7 µsec max. @ $d I_f / dt = I_{fn} / \mu$ sec											
Frequency bandwidth (-3dB)	f _{BW}	Hz	DC to 50kHz											
Thermal Drift of Output	-	%/°C	Within ±0.05 %/°C @ I _{fn}											
Thermal Drift of Zero Current Offset	-	mV/°C	Within ±1.5 mV/°C @ I _{fn}											
Dielectric Strength	-	V	AC2.5KV X 60 sec											
Isolation Resistance @ 1000 VDC	R _{IS}	ΜΩ	>1000 MΩ											
Operating Temperature	Ta	°C	-15°C to 80°C											
Storage Temperature	Ts	°C	-20°C to 85°C											
Mass	W	g	28 g											



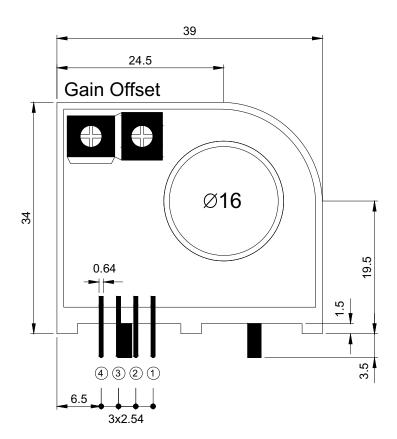
Topstek Current Transducers TD25A .. **TD400A**

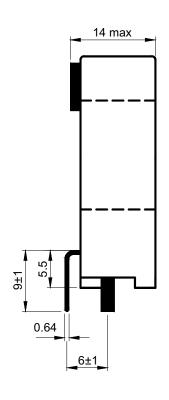


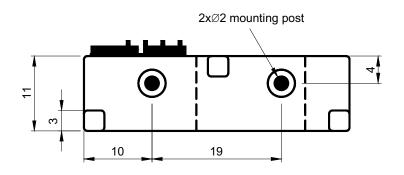
Appearance, dimensions and pin identification All dimensions in mm ±0.1, holes –0, +0.2 except otherwise noted.











Pin Assignment					
1	+15V				
2	-15V				
3	Vouт				
4	0V				

