## **Topstek Current Transducers TW25A.. TW300A**

#### TW 25A~300A

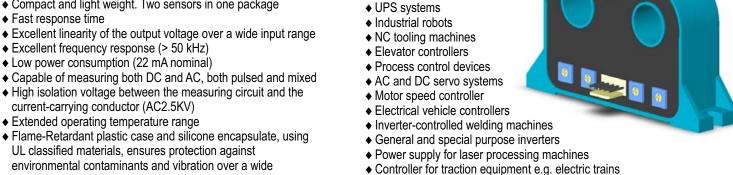
#### **Features**

- ◆ Highly reliable Hall Effect device
- ◆ Compact and light weight. Two sensors in one package

- UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

### **Applications**

◆ Other automatic control systems



**Specifications** 

Parameter	Symbol	Unit	TW 25A	TW 37.5A	TW 50A	TW 75A	TW 100A	TW 125A	TW 150A	TW 175A	TW 200A	TW 250A	TW 300A
Nominal Input Current	I <sub>fn</sub>	A DC	25	37.5	50	75	100	125	150	175	200	250	300
Linear Range	I <sub>fs</sub>	A DC	±75	±112.5	±150	±225	±300	±375	±450	±525	±600	±750	±750
Nominal Output Voltage	$V_{hn}$	V	4 V±1% @ If=I <sub>fn</sub> ( R <sub>L</sub> =10kΩ)										
Offset Voltage	Vos	mV	Within ±35 mV @ I <sub>f</sub> =0, T <sub>a</sub> =25°C										
Output Resistance	R <sub>OUT</sub>	Ω	<100Ω(50Ωnominal)										
Hysteresis Error	V <sub>oh</sub>	mV	Within ±30 mV @ I₁=I₂n→0										
Supply Voltage	V <sub>CC</sub> /V <sub>EE</sub>	V	±15V ±5%										
Linearity	ρ	%	Within ±1% of I <sub>fn</sub>										
Consumption Current	I <sub>CC</sub>	mA	±22 mA nominal, ±30 mA max										
Response Time (90%V <sub>hn</sub> )	T <sub>r</sub>	μsec	5 μsec max. @ $d I_f/dt = I_{fn}/\mu$ sec										
Frequency bandwidth (-3dB)	f <sub>BW</sub>	Hz	DC to 50kHz										
Thermal Drift of Output	-	%/°C	Within ±0.1 %/°C @ I <sub>fn</sub>										
Thermal Drift of Zero Current Offset	-	mV/°C	< ±3 i	mV/°C	< ±1.5	mV/°C			<	±1 mV/	°C		
Dielectric Strength	1	٧	AC2.5KV X 60 sec										
Isolation Resistance @ 1000 VDC	R <sub>IS</sub>	МΩ	>1000 MΩ										
Operating Temperature	Ta	°C	-15°C to 80°C										
Storage Temperature	Ts	°C	-20°C to 85°C										
Mass	W	g	150 g										



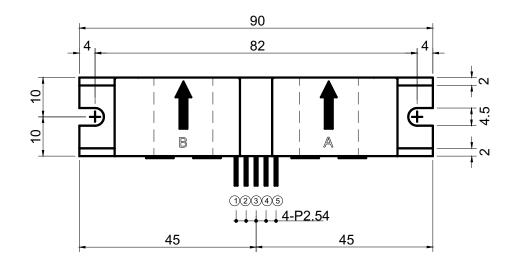
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## Appearance, dimensions and pin identification

All dimensions in mm  $\pm 0.1$ , holes -0,  $\pm 0.2$  except otherwise noted.



# Positive current flow direction



Pin Assignment					
1	0V				
2	B output				
3	A output				
4	-15V				
5	+15V				

