### Topstek Current Transducers TW25A .. TW300A

#### TW 25A~300A

#### **Features**

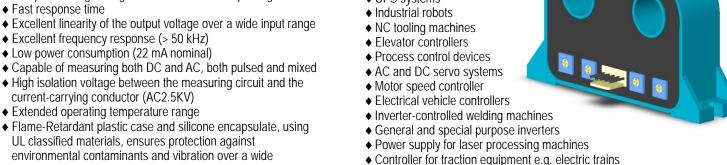
- ◆ Highly reliable Hall Effect device
- ◆ Compact and light weight. Two sensors in one package

- ♦ High isolation voltage between the measuring circuit and the
- UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

#### **Applications**

◆ UPS systems

◆ 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 <sub>hn</sub>	V	4 V±1% @ If=I <sub>fn</sub> ( $R_L$ =10k $\Omega$ )										
Offset Voltage	Vos	mV	Within ±35 mV @ I <sub>f</sub> =0, T <sub>a</sub> =25°C										
Output Resistance	Rout	Ω	<100Ω(50Ωnominal)										
Hysteresis Error	V <sub>oh</sub>	mV	Within $\pm 30 \text{ mV} @ I_f = I_{fn} \rightarrow 0$										
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 $\mu$ sec 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	$<\pm3$ mV/°C $<\pm1.5$ mV/°C $<\pm1$ mV/°C										
Dielectric Strength	-	V	AC2.5KV X 60 sec										
Isolation Resistance @ 1000 VDC	R <sub>IS</sub>	ΜΩ	>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										



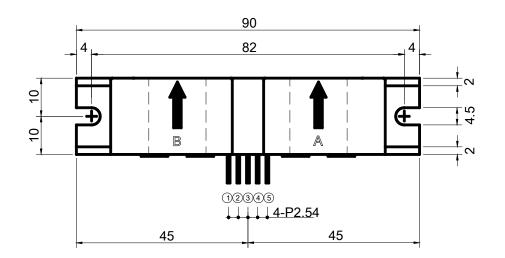
TW

## Topstek Current Transducers TW25A .. TW300A

# Appearance, dimensions and pin identification All dimensions in mm $\pm 0.5$ , 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			

Output Connector: Molex 5045-05 Matching connector: 5102-05, 5051-05

