



TBC-APS52 Series current sensor is a Closed loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit, it is used for precision measurement of DC, AC and pulse current.

Electrical data (Ta=25°C±5°C, RL=10KΩ, CL=4700PF)

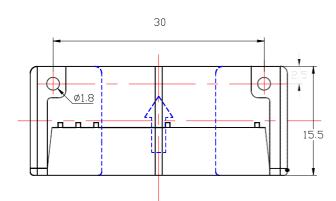
Туре	TBC- 50APS52	TBC- 75APS52	TBC- 100APS52	TBC- 150APS52	Unit
Parameter					
Rated input (lpn)	±50	±75	±100	±150	A
Measure range (lp)	±55	±82.5	±110	±165	А
Turns ratio (Np/Ns))	1:1000	1:1500	1:2000	1:1500	Т
Internal resister	10±0.1%	10±0.1%	10±0.1%	5±0.1%	Ω
Rated output	@lp=±lpn ±2.0±0.5%				V
Supply voltage	+5.0 ±2%				V
Power consumption	≤20+IpX (Np/Ns)				mA
Zero voltage	@Ip=0 +2.5±0.4%				V
Zero voltage	≤±5				
Magnetic Offset voltage	≤±3.0				
Offset drift	≤±0.2				
output drift	≤±0.2				mV/°C
Linearity	@lp=0-±lpn ≤0.1				%FS
Response time	@50A/µS,10%-90% ≤0.5				μs
Band- width	@-3dB DC-200				
Galvanic isolation	@ 50Hz,AC,1min 2.5				KV



Applications

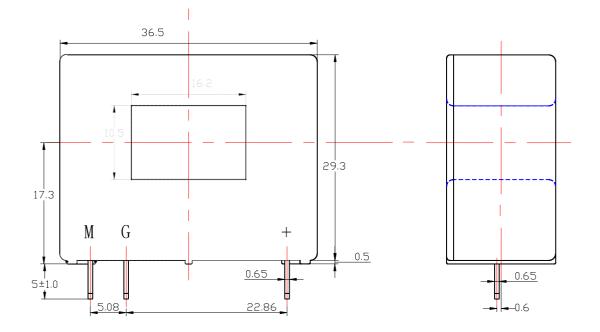
- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Mechanical dimension (for reference only)



mounting:M2.5X6.0

+	+5V		
G	GND		
М	Output		



Remarks :

- 1. All dimensions are in mm.
- 2. General tolerance ± 1 mm



Directions for use

- 1. When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor)
- 2. Customs can adjust Output amplitude of the sensor by needs.
- 3. Custom design in the different rated input current and the output voltage are available.

Standards

UL94-V0.

EN60947-1:2004

IEC60950-1:2001

EN50178:1998

SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +85	°C	ТА
Storage temperature	-40 to +125	°C	TS
Mass(approx)	18	g	М

Characteristics chart

Pulse current signal response characteristic

Effects of impulse noise

