



Characteristics of Astec Current Sensors 1

Feb.,26, 2008

Taiho Product Co.,Ltd.

MODEL	SCD**PAR					SCD**PBR					SCD**PTR					SCD**PSN				
	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20
Single, 20mm High																				
Rated Current (A)	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20	+ 3	+ 5	+ 10	+ 15	+ 20
Linearity Range (A)	± 9	± 15	± 30	± 45	± 60	± 6	± 10	± 20	± 30	± 40	± 4.5	± 7.5	± 15	± 22.5	± 30	+ 6	+ 10	+ 20	+ 30	+ 40
Output Voltage	± 4.0V ± 1% (at ± If)					± 4.0V ± 1% (at ± If)					± 2.0V ± 1% (at ± If)					+ 5.0V ± 0.8% (at + If)				
Zero Current Offset Voltage	0V ± 30mV (at If=0)					0V ± 30mV (at If=0)					0V ± 20mV (at If=0)					+ 1.0V ± 30mV (at If=0)				
Output Voltage Linearity	Within ± 0.5%					Within ± 0.5%					Within ± 0.5%					Within ± 0.5%				
Supply Voltage	± 15.0V ± 5%					± 12.0V ± 5%					± 5.0V ± 5%					+ 12.0V ± 5%				
Max. Current Consumption	± 25mA max.					± 25mA max.					± 25mA max.					+ 25mA max.				
Response	3 μ sec. typ.					3 μ sec. typ.					3 μ sec. typ.					3 μ sec. typ.				
Output Voltage Temp. Char.	Within ± 0.1%/					Within ± 0.1%/					Within ± 0.1%/					Within ± 0.1%/				
Zero Current Offset V. Temp. Char.	Within ± 1.5mV/					Within ± 1.5mV/					Within ± 1.0mV/					Within ± 1.5mV/				
Hysteresis	15mV or less					15mV or less					8mV or less					15mV or less				
Primary Over Current	Sensor will stand against an over current max. 10 times of the rated current for 50 millisecond maximum.																			
Withstand Voltage	AC 2kV, 1minute																			
Insulation Resistance	DC 500V, 500M min.																			
Operating Temperature	-10 to +75																			
Storage Temperature	-30 to +90																			

Characteristics of Astec Current Sensors 2

Feb.,26, 2008

Taiho Product Co.,Ltd.

MODEL	SCD**PSR					SCD**PUN					SCD**PUR					SCD**EUR				
Single, 20mm High	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20
Rated Current [A]	± 3	± 5	± 10	± 15	± 20	+ 3	+ 5	+ 10	+ 15	+ 20	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20
Linearity Range [A]	+ 9 - 3	+ 15 - 5	+ 30 - 10	+ 45 - 15	+ 60 - 20	+ 6	+ 10	+ 20	+ 30	+ 40	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20
Output Voltage	+ 4.5V ± 30mV (at +If) + 0.5V ± 30mV (at -If)					+ 2.3V ± 40mV (at +If)					+ 4.5V ± 30mV (at +If) + 0.5V ± 30mV (at -If)					+ 4.5V ± 30mV (at +If) + 0.5V ± 30mV (at -If)				
Zero Current Offset Voltage	+ 2.5V ± 20mV (at If=0)					+ 0.3V ± 30mV (at If=0)					+ 2.5V ± 20mV (at If=0)					+ 2.5V ± 20mV (at If=0)				
Output Voltage Linearity	Within ± 0.5%					Within ± 0.5%					Within ± 0.5%					Within ± 0.5%				
Supply Voltage	+ 12.0V ± 5%					+ 5.0V ± 5%					+ 5.0V ± 5%					+ 5.0V ± 5%				
Max. Current Consumption	+ 25mA or less					+ 25mA or less					+ 25mA or less					+ 25mA or less				
Response	3 μ sec. typ.					7 μ sec. typ.					7 μ sec. typ.					7 μ sec. typ.				
Output Voltage Temp. Char.	Within ± 0.1%/					Within ± 0.1%/					Within ± 0.1%/					Within ± 0.1%/				
Zero Current Offset V. Temp. Char.	Within ± 1.5mV/					Within ± 1.5mV/					Within ± 1.5mV/					Within ± 1.5mV/				
Hysteresis	8mV or less					8mV or less					8mV or less					8mV or less				
Primary Over Current	Sensor will stand against an over current max. 10 times of the rated current for 50 millisecond maximum.																			
Withstand Voltage	AC 2kV, 1minute															AC 4kV, 1minute				
Insulation Resistance	DC 500V, 500M min.																			
Operating Temperature	-10 to +75																			
Storage Temperature	-30 to +90																			

Characteristics of Astec Current Sensors 3

Feb.,26, 2008

Taiho Product Co.,Ltd.

MODEL	SCD**HTR (Low Noise)					SCD**HTR-E (Low Noise, CE Marking Self Dec.)					SCD**SSR (12mm High)					
	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20	
Single, 20mm/12mm High	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20	
Rated Current [A]	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20	
Linearity Range [A]	± 4.5	± 7.5	± 15	± 22.5	± 30	± 4.5	± 7.5	± 15	± 22.5	± 30	+ 4.5 - 3	+ 7.5 - 5	+ 15 - 10	+22.5 - 15	+ 30 - 20	
Output Voltage	± 2.0V ± 1% (at ± If)					± 2.0V ± 1% (at ± If)					+ 4.5V ± 30mV (at +If) + 0.5V ± 30mV (at -If)					
Zero Current Offset Voltage	0V ± 20mV (at If=0)					0V ± 20mV (at If=0)					+ 2.5V ± 20mV (at If=0)					
Output Voltage Linearity	Within ± 0.5%					Within ± 0.5%					Within ± 0.5%					
Supply Voltage	± 5.0V ± 5%					± 5.0V ± 5%					+ 12.0V ± 5%					
Max. Current Consumption	± 25mA or less					± 25mA or less					+ 25mA or less					
Response	7 μ sec. typ.					7 μ sec. typ.					7 μ sec. typ.					
Output Voltage Temp. Char.	Within ± 0.1%/					Within ± 0.1%/					Within ± 0.1%/					
Zero Current Offset V. Temp. Char.	Within ± 1.5mV/					Within ± 1.5mV/					Within ± 1.5mV/					
Hysteresis	8mV or less					8mV or less					8mV or less					
Voltage Noise	Less than ± 3mV					Less than ± 3mV					-					
Primary Over Current	Max. 10 x rated current for 50 msec is permitted.										Max. 5 x rated current for 50msec permitted.					
Withstand Voltage	AC 2kV, 1minute															
Insulation Resistance	DC 500V, 500M min.															
Operating Temperature	-10 to +75															
Storage Temperature	-30 to +90															

Characteristics of Astec Current Sensors 4

Feb.,26, 2008

Taiho Product Co.,Ltd.

MODEL	SCL**PSR 12mm High					SCL**HSR 12mm High					SCL**PUR 12mm High					SCL**PUN/HUN 12mm High				
Dual, 12mm High	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20	03	05	10	15	20
Rated Current [A]	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20	± 3	± 5	± 10	± 15	± 20	+ 3	+ 5	+ 10	+ 15	+ 20
Linearity Range [A]	± 6	± 10	± 20	± 30	± 40	+ 4.5 - 3	+ 7.5 - 5	+ 15 - 10	+22.5 - 15	+ 30 - 20	± 3	± 5	± 10	± 15	± 20	+ 6	+ 10	+ 20	+ 30	+ 40
Output Voltage	+ 3.5V ± 30mV (at +If) + 1.5V ± 30mV (at -If)					+ 4.5V ± 30mV (at +If) + 0.5V ± 30mV (at -If)					+ 4.5V ± 30mV (at +If) + 0.5V ± 30mV (at -If)					+ 2.3V ± 30mV (at +If)				
Zero Current Offset Voltage	+ 2.5V ± 30mV (at If=0)					+ 2.5V ± 30mV (at If=0)					+ 2.5V ± 30mV (at If=0)					+ 0.3V ± 30mV (at If=0)				
Output Voltage Linearity	Within ± 0.5% max.					Within ± 0.5% max.					Within ± 0.5% max.					Within ± 0.5% max.				
Supply Voltage	+ 12.0V ± 10%					+ 12.0V ± 10%					+ 5.0V ± 5%					+ 5.0V ± 5%				
Max. Current Consumption	+ 25mA or less					+ 25mA or less					+ 25mA or less					+ 25mA or less				
Response	15 μ sec. typ.					5 μ sec. typ.					15 μ sec. typ.					5 μ sec. typ.				
Output Voltage Temp. Char.	Within ± 0.1%/					Within ± 2mV/					Within ± 2mV/					Within ± 2mV/				
Zero Current Offset V. Temp. Char.	Within ± 1.0mV/					Within ± 1.5mV/					Within ± 1.5mV/					Within ± 1.5mV/				
Hysteresis	5mV or less					5mV or less					5mV or less					5mV or less				
Voltage Noise	-					Less than ± 3mV					-					-				
Primary Over Current	Sensor will stand gainst an over current max. 5 times of the rated current for 50 millisecond maximum.																			
Withstand Voltage	AC 2kV, 1minute																			
Insulation Resistance	DC 500V, 500M min.																			
Operating Temperature	-10 to +75																			
Storage Temperature	-30 to +90																			