Generic DC current sensor, penetration type

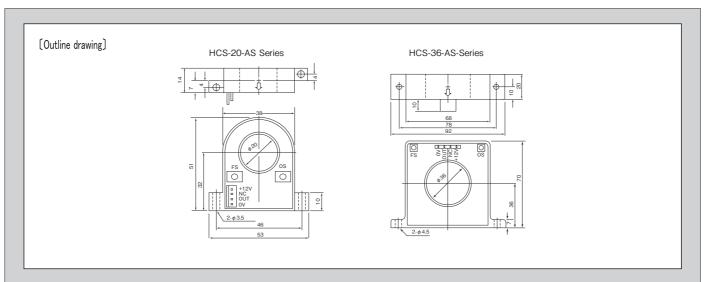
Medium and large size for panel mounting corresponding to $+8V \sim +16V$ power supply



HCS-AS series Model

(Features)

- Corresponding to +8 ~ +16V single power supply
- lacktriangle Possible to discriminate the direction by output swing with 0.5 \sim 4.5V range at the midpoint 2.5V
- Possible to measure with isolation
- High reliability with sensor and amplifier integral structure
- lacktriangle Possible to measure until bandwidth of DC \sim 20kHz high frequency (In the case of use with high frequency, there is the case not to use until the rating current)
- High speed response within 3 μ s



(Specification)

Model	HCS-20- (Rating current) -AS			HCS-36- (Rating current) -AS		
Rating current (FS)	± 50A	± 100A	± 150A	± 200A	± 200A	± 500A
Output voltage	2.5V \pm 2V (Output range \pm 2V at the midpoint of 2.5V of no load, recommended load resistor \ge 10k Ω)					
Residual voltage	2.5V within ± 20mV (no load, power supply voltage +12V)					
Noise level	Less than 10mVp-p (no load)					
Linearity	Within ± 1%FS					
Hysteresis(FS→0)	Within ± 15mV					
Response time	Less than 3 μ s (at di/dt = FS/2 μ s)					
Output voltage temperature coefficient	± 0.15% ∕°C typ					
Residual voltage temperature coefficient	± 1.5 mV \nearrow °C typ ± 1 mV \nearrow °C typ					
Power supply	DC + 8V ~ + 16V 単電源(25mA typ / DC12V、45mA typ / DC16V)					
Withstand voltage	AC2500V(50/60Hz), 1min (Aperture-output terminal in a lump)					
Insulation resistance	DC500V, \geq 500M Ω (Aperture-output terminal in a lump)					
Operating temperature	-10 °C ~ $+60$ °C , ≤ 85 %RH, no condensation					
Storage temperature	-15°C ~ +65°C , ≤ 85%RH, no condensation					
Internal adjustment function	FS: Calibration for maximum output, OS: Calibration for zero point without load (Calibrated at the time of delivery)					
Output connector	5045-04 (Molex)					
Screw torque	0.3N • m			0.7N • m		
Mass	approximate	mately 45g approximately 140g			ly 140g	

- [Remark] (1) After overcurrent more than rating current, offset drift occur by proportional to that current, with hysteresis of core.
 - (2) Recommend to use more than 5% of nominal for practical range, because output includes various variation factors.
 - (3) Do not beyond rating current for continuous use
 - (4) There is possibility of heating by core loss for the application of high frequency and high current. Please check by contacting us.

Ta=25°C

HCS-AS series typical characteristic (HCS-20-50-AS)

