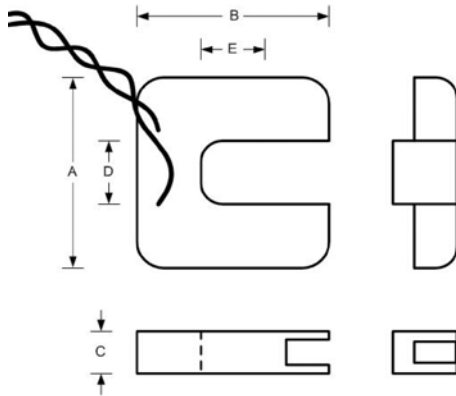
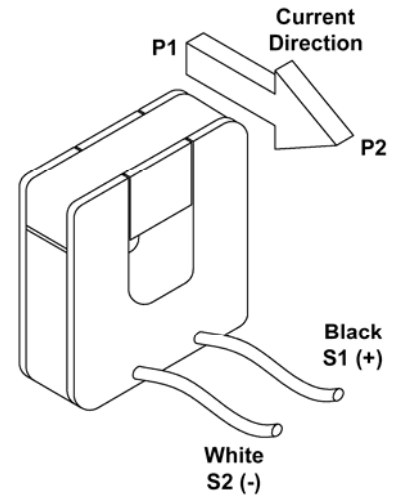


SCT split Current Sensors are only suitable for use on insulated conductors.

Installation

- Isolate power in the primary conductors.
- Obtain the relevant schematic from the meter Installation and Operating Manual.
- Insert a finger through the hole and pull the split section to remove it from the CT. Keep the split section and main body of the CT together as a pair.
- Place the CT over the correct isolated primary conductor (see schematic). Note the secondary wires should be closest to the load (labelled P2 on the meter schematic).
- Replace the split section and push until it clicks firmly into place. The split section is polarised and will only fit the correct way round on the CT.
- Connect the secondary wires to the meter (S1, S2) as shown in the schematic.
- Check all wiring before re-energising the load.



Dimensions (mm ± 0.5mm)

Model	A	B	C	D	E
SCT19 – 150	51	53	17	19	19
SCT32 – 400	82.5	85	27	32	32
SCT51 – 800	121	127	32	51	51

SCT Current Sensors have a Voltage output and therefore may be safely left open-circuit. Shorting links are not required.

Cable Length

SCT split current sensors are supplied with a captive output cable. If necessary, this can be extended but care must be taken to avoid pickup of electrical interference. With suitable low capacitance screened cables, the cable can be extended to 100m or more. See below for cable specification.

Brief Specification

Electrical	
Current Operating Range	
SCT19	3 Amp — 180 Amp
SCT32	8 Amp — 480 Amp
SCT51	16 Amp – 960 Amp
Maximum Input Current I_{max}	
SCT19	200 Amp
SCT32	800 Amp
SCT51	2000 Amp
Output at I_n	0.333V _{ac}
Frequency Range	50-60 Hz
Accuracy (0.1I_n — 1.3I_n)	± 1%
Phase Error	< 2° at 0.5I _n

Mechanical	
Enclosure	ABS to UL94V-0
Construction	Epoxy encapsulated
Insulation Voltage	600 V _{rms}
Environment	Indoor use only, altitude < 2000m
Operating Temp	-15°C to +60 °C
Humidity	Max 80% RH at 30°C Non-condensing
Output Connection	2m twisted pair cable, 0.34mm ² , UL 1015

Extension Cables	
Voltage Rating	250 V _{rms} minimum
Capacitance	Ideally < 5000 pF core to core total
Resistance	Ideally < 25 Ω total resistance

Note: Examples of suitable cables include Belden 9841, Alpha 6412 and equivalents; also multi-pair versions of these cables. Cables with a higher capacitance & resistance may be used where a shorter extension is required. Cables with a lower voltage rating must not be used.