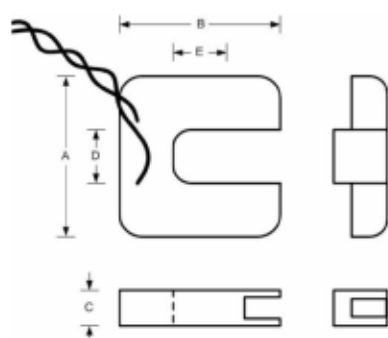


The FESCT series of retro-fit (split-core) current sensors are designed for fast and easy installation without the need to disconnect any loads. High precision units, they are equally suitable for Current or Power measurement - ideal for Energy Management or any form of automation and control systems.

An internal precision resistor across the secondary winding of the CT provides a safe low voltage output - no more worries about open-circuiting CT secondary circuits.

- **Low Cost**
- **Safe, easy & simple to install**



Model

SCT19 - xxxx

SCT32 - xxxx

SCT51 - xxxx

Dimensions (mm ± 0.5mm)

A	B	C	D	E
51	53	17	19	19
82.5	85	27	32	32
121	127	32	51	51

Brief Specification

Electrical	
Nominal Input Current I_n	
SCT19	5 Amp – 150 Amp
SCT32	70 Amp – 600 Amp
SCT51	600 Amp - 1500 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 $0.5I_n$

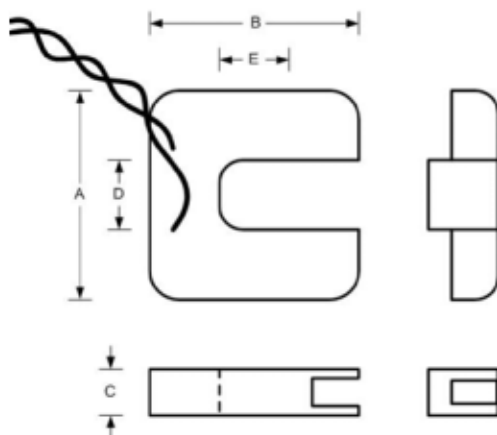
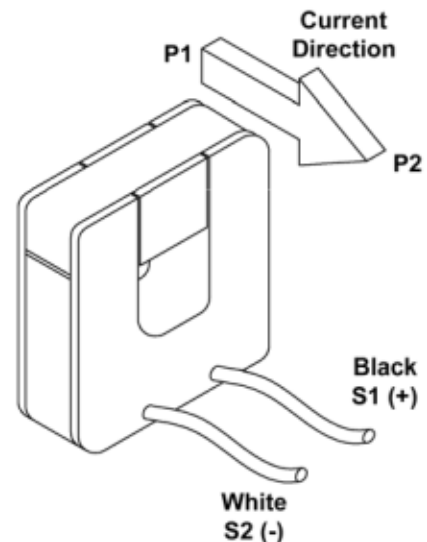
Mechanical	
Enclosure	ABS to UL94V-0
Construction	Epoxy encapsulated
Insulation Voltage	600 V _{rms}
Environment	Indoor use only, altitude < 2000m
Operating Temperature	-15°C to +60 °C
Humidity	Max 80% RH at 30°C Non-condensing
Output Connection	2m twisted pair cable 0.34mm ² , UL 1015

Available Models

Model	Nominal Current I_n FSA	Weight	Stock Units
ND SCT19 - FSA	5, 10, 15, 20, 30, 50, 70, 100, 150 Amp	125 gms	
ND SCT32 - FSA	70, 100, 150, 200, 250, 300, 400, 600 Amp	350 gms	
ND SCT51 - FSA	600, 800, 1000, 1200, 1500 Amp	950 gms	

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 \pm 0.5mm)

Model	A	B	C	D	E
FESCT19 – xxxx	51	53	17	19	19
FESCT32 – xxxx	82.5	85	27	32	32
FESCT51 – xxxx	121	127	32	51	51

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. Maximum recommended total cable length is 10m. The only critical cable specification is the insulation, which must be sufficient for the installation.

Brief Specification

Electrical	
Nominal Input Current I_n	
FESCT19	5 Amp — 150 Amp
FESCT32	70 Amp — 600 Amp
FESCT51	600 Amp – 1500 Amp
Maximum Input Current I_{max}	
FESCT19	200 Amp
FESCT32	800 Amp
FESCT51	2000 Amp
Output at I_n	0.333V _{ac}
Frequency Range	50-60 Hz
Accuracy ($0.1I_n$ — $1.3I_n$)	\pm 1%
Phase Error	$< 2^\circ$ 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	1m twisted pair cable, 0.34mm ² , UL 1015

