



ESCT-RC  
FLEXIBLE ROGOWSKI COIL CURRENT SENSOR

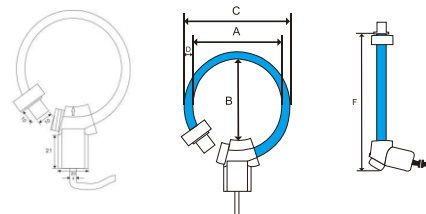
- Flexible and light weights
- Easy & quick installation in tight spaces
- No danger from open-circuited secondary
- No core saturation or damage if overloaded
- Excellent linearity
- Multi- size are available

Specification	
Current range	10A to 100kA
Rated output	85mV/ per 1000A @ 50Hz without integrator 50mV/ per 1000A @ 50Hz without integrator
Accuracy	±1% from 5% to 120% of rated current with integrator(45-65Hz)
Phase angle	≤±1°5% to 120% from 5% to 120% of rated current
Linear	0.5%
Frequency	1Hz-1MHz ,50/60 Hz nominal
Work Voltage	600V
Coil diameter	10.5mm,12mm or as customer order
Window size	16mm,24mm or as per customer ordered
Wire lead	2 meters sheath cable or as customers order
Withstand voltage	3000V
Operating temperature	-30°C~+70°C
IP class	IP65
Certification	CE / RoHS

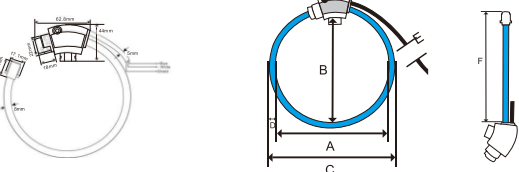
Model	Rated Amps(A)	Class	Coil Length	Window Size		Type No.
				A	B	
ESCT-RC16	100	0.5	80	22	16	C
ESCT-RC24	300	0.5	97	27.5	24	C
ESCT-RC36	600	0.5	130	36	37	C
EACT-RC45	500	0.5	140	65	45	D
ESCT-RC60	500	0.5	200	60	50	A
ESCT-RC100	1000	0.5	395	135	100	B
ESCT-RC105	1500	0.5	350	105	100	A
ESCT-RC150	3000	0.5	525	165	150	B
ESCT-RC200	6000	0.5	665	240	200	B
ESCT-RC240	10000	0.5	800	245	240	A

Coil Type:	Type A			Type B			Type C			Type D
Model:	RC60	RC105	RC240	RC100	RC150	RC200	RC16	RC24	RC36	RC45
A: Window Size A	60	105	245	135	165	210	22	27.5	36	65
B: Window Size B	50	100	240	100	150	200	16	24	37	45
C: Coil O.D.	66	121	261	151	181	226	24	39.5	48	81
D: Coil Section	8						6			8
E: Lead Cable Total Length	2000									
F: Coil Length	200	350	800	395	525	665	80	97	130	205

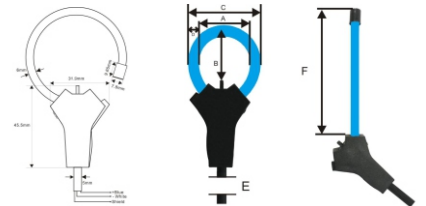
Type A:



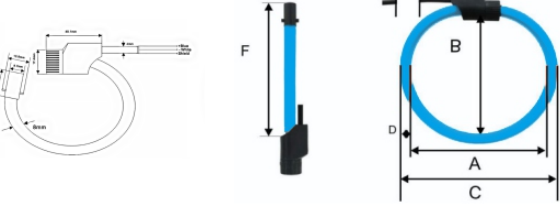
Type B:



Type C:



Type D:



ESCT-RCI Series  
SINGLE PHASE/THREE PHASE INTEGRATOR

- High read accuracy Class0.2/Class 0.5
- Low power consumption
- Adaptive with different kinds of coils
- Wide range of rated input: 500A-100kA

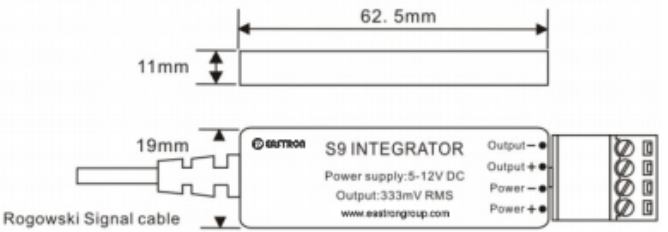
Single Phase DIN Rail 1A/5A Integrator		
Model	ESCT-RCI-A01	ESCT-RCI-A05
Rated output	1A AC	5A AC
Max. Output(overload)	3A AC(<1s, after the start overheating protection)	7A AC(<1s, after the start overheating protection)
Rated ratio	500A,3000A,10kA,...100kA	
Read accuracy	1%typical at 5% (≥10A) to 100% of rated Current @25°C	
Phase error	≤0.5°	
Linearity	±0.2% of reading (5% to 100% of range)	
Bandwidth	30Hz to 5kHz	30Hz to 5kHz(-3dB)
Max. burden	1Ω	0.8Ω
Power supply	85~265V AC/DC(Powered from 2pcs 85~265 to 8VDC 40W SMPS)	
Power consumption	5W	40W
Temperature drift	200ppm/°C	
Operating temperature	-20°C to +70°C	
Storage temperature	-30°C to +90°C	
Relative humidity	80% max. without condensation	
Protection degree	IP20	

Three Phase DIN Rail 1A/333mV Integrator		
Model	ESCT-RCI-01	ESCT-RCI-03
Rated output	1A AC	333mV AC
Rated ratio	100A,600A,1000A,3000A,6000A	
Read accuracy	0.5% typical at 1%(≥10A) to 110% of rated Current @25°C	
Phase error	≤0.5°	
Linearity	±0.2% of reading (10% to 120% of range)	
Bandwidth	30Hz to 5kHz	
Max. burden	0.5Ω(each phase)	
Power supply	12V/24V DC	
Power consumption	10W	
Temperature drift	200ppm/°C	
Operating temperature	-20°C to +70°C	
Storage temperature	-30°C to +90°C	
Relative humidity	80% max. without condensation	
Protection degree	IP20	

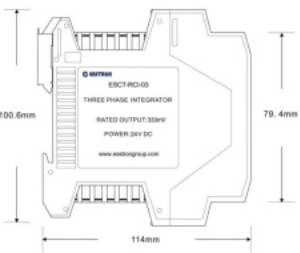
Single Phase 333mV Integrator	
Model	ESCT-RCI-9.1
Rated output	333mV AC
Max. Output(overload)	4.8V AC pp
Instant response time	≤1ms
Power consumption	70mW
Bandwidth	10Hz to 10kHz
Power supply	6-12V DC
Rated output	500A,3000A,10kA,...100kA
Read accuracy	0.5% typical at 5%(≥20A) to 120% F.S.@25°C
Phase error	≤0.5°
Linearity	±0.2% of reading (5% to 120% of range)
Operating temperature	-20°C to +70°C
Storage temperature	-30°C to +90°C

► Dimensions(Unit: mm)

ESCT-RCI-9.1



ESCT-RCI-01/03



ESCT-RCI-A01/05

