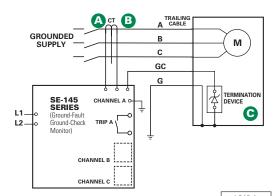


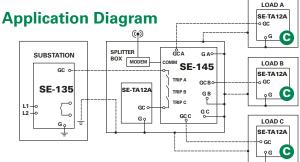
# SE-145 SERIES

## **Ground-Fault Ground-Check Monitor**



## **Simplified Circuit Diagram**





# **Ordering Information**

ORDERING NUMBER	CONTROL POWER	COMM
SE-145-00-00	120/240 Vac; 110-250 Vdc	_
SE-145-03-00	120/240 Vac; 110-250 Vdc	Modbus® TCP
SE-145-30-00	24 Vdc Battery Back-up	_
SE-145-33-00	24 Vdc Battery Back-up	Modbus® TCP
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ACCESSORIES	REQUIREMENT
SE-CS10 or SE-CS40 Series	Required
SE-TA12A Series	Required
RK-132	Optional

See Current Transformer Selection Guide and Accessory Information.

## **Description**

The SE-145 is a three-channel, microprocessor-based, combination ground-wire monitor and ground-fault relay for resistance-grounded or solidly grounded systems. It continuously monitors the integrity of the ground wire to protect portable equipment from hazardous voltages caused by ground faults. The SE-145 is designed for use on three-way splitter box applications.

### **Features & Benefits**

FEATURES	BENEFITS	
Adjustable pickup (0.5 - 12.5 A)	Unit can be used on a wide variety of trailing cable applications	
Adjustable time delay (1-2.5 s)	Adjustable trip delay for quick protection and system coordination	
Output contacts	Separate annunciation of ground-fault and ground- check faults	
Ground-check LED indication	Indication of open or short ground-check wire makes it easier to find faults	
CT-Loop monitoring	Alarms when CT is not connected	
High-induced-ac rejection	Makes unit suitable for applications with high voltages and long cables	
DFT (harmonic) filter	Prevents false operation	
Zener-characteristic termination assembly	Provides reliable ground-check loop verification	
Fail-safe circuits	Ensures ground-check and ground-fault circuits remain safe even in the event of equipment failure	
Conformal coating	Additional coating protects circuit boards against harsh environment	

### **Accessories**



#### **SE-CS10 Series Ground-Fault Current Transformer**

Zero-sequence current transformer detects ground-fault current. Provides 0.5 to 12.5 A trip range.



#### SE-CS40 Series Ground-Fault Current Transformer

Zero-sequence current transformer detects ground-fault current. Provides 2.0 to 50 A trip range.



SE-TA12A Series Termination Assembly Required termination assembly; temperature compensated.

## **Specifications**

**Contact Operating Mode** 

**Harmonic Filtering** 

**Communications** 

**Output Contacts** 

**Conformally Coated** 

**Test Button** 

**Reset Button** 

**IEEE Device Numbers** Checking or Interlocking Relay (3GC), Ground fault (50G/N, 51G/N) Input Voltage 60-265 Vac, 60VA; 82-275 Vdc, 45W;

18-30Vdc, 45W

**H** 213 mm (8.4"); **W** 192 mm (7.6"); **D** 176 mm (7.0") **Dimensions Trip Level Settings** 0.5 -12.5 A or 2.0-50.0 A **Trip Time Settings** 

0.1-2.5 s

Selectable fail-safe or non-fail-safe

Standard feature Standard feature Standard feature **Ethernet Optional** Isolated Form A and Form B Standard feature

Warranty 5 years Mounting Panel, Surface