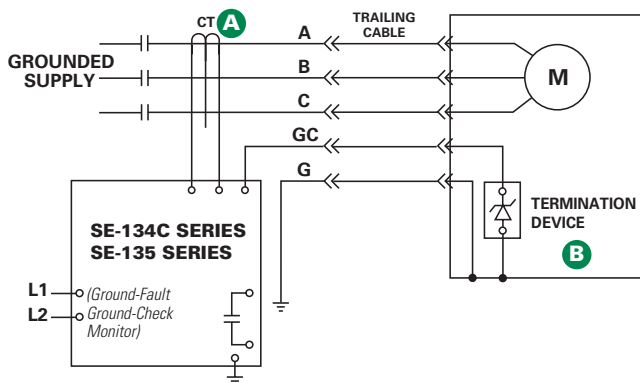


# SE-134C, SE-135 SERIES

## Ground-Fault Ground-Check Monitor



### Simplified Circuit Diagram



### Ordering Information

CATALOG/ SYSTEM NUMBER	CONTROL POWER
SE-134C-00	60-265 Vac; 80-370 Vdc
SE-135-00	60-265 Vac; 80-370 Vdc

ACCESSORIES	REQUIREMENT	PAGE
SE-CS10 Series	Required	49
SE-TA6A Series (for SE-134C)	Required	55
SE-TA12A Series (for SE-135)	Required	55
SE-IP65CVR-G	Optional	53
RK-132	Optional	52

See pg. 48-56 for Current Transformer Selection Guide and Accessory Information.

### Description

The SE-134C/SE-135 is a 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-134C/SE-135 is field proven in monitoring trailing cables on large mobile equipment such as shore-to-ship power cables, dock-side cranes, stacker-reclaimers, submersible pumps, portable conveyors, drag-lines, and mining shovels.

### Features & Benefits

FEATURES	BENEFITS
<b>Adjustable Pickup (0.5-12.5 A)</b>	Unit can be used on a wide variety of trailing cable applications
<b>Adjustable Time Delay (1-2.5 s)</b>	Adjustable trip delay for quick protection and system coordination
<b>Output Contacts</b>	Separate annunciation of ground-fault and ground-check faults
<b>Ground-Check LED Indication</b>	Indication of open or short ground-check wire makes it easier to find faults
<b>CT-Loop Monitoring</b>	Alarms when CT is not connected
<b>High-Induced-ac Rejection</b>	Makes unit suitable for applications with high voltages and long cables
<b>DFT (Harmonic) Filter</b>	Prevents false operation
<b>Zener-Characteristic Termination Assembly</b>	Provides reliable ground-check loop verification
<b>Fail-Safe Circuits</b>	Ensures ground-check and ground-fault circuits remain safe even in the event of equipment failure
<b>Conformal Coating</b>	Additional coating protects circuit boards against harsh environment

### Accessories

**A**



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

Required zero-sequence current transformer detects ground-fault current.

**B**



#### SE-TA6A Series, SE-TA12A Series Termination Assembly

Required termination assembly; temperature compensated.

For detailed wiring diagram, see page 82.

### Specifications

<b>IEEE Device Numbers</b>	Checking or Interlocking Relay (3GC), Ground fault (50G/N, 51G/N)
<b>Input Voltage</b>	60-265 Vac; 80-370 Vdc 15W
<b>Dimensions</b>	<b>H</b> 213 mm (8.4"); <b>W</b> 99 mm (3.9"); <b>D</b> 132 mm (5.2");
<b>Trip Level Settings</b>	0.5-12.5 A
<b>Trip Time Settings</b>	0.1-2.5 s
<b>Contact Operating Mode</b>	Selectable fail-safe or non-fail-safe
<b>Harmonic Filtering</b>	Standard feature
<b>Test Button</b>	Standard feature
<b>Reset Button</b>	Standard feature
<b>Output Contacts</b>	Isolated Form A and Form B
<b>Certification</b>	CSA certified to US and Canadian standards
<b>Conformally Coated</b>	Standard feature
<b>Warranty</b>	5 years
<b>Mounting</b>	Panel, Surface