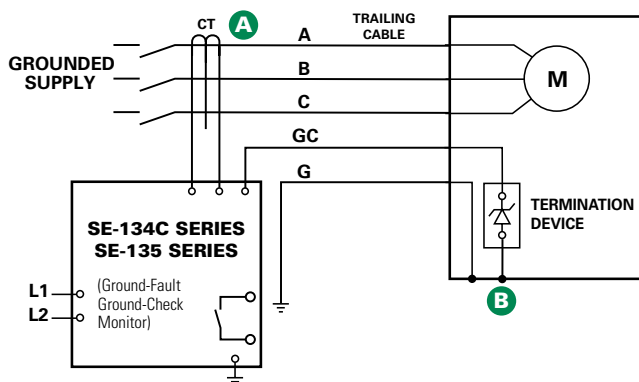


# SE-134C, SE-135 SERIES (PGM-8134)

## Ground-Fault Ground-Check Monitor



## Simplified Circuit Diagram



## Ordering Information

ORDERING NUMBER	OPTION	POWER SUPPLY	COMM
SE-134C	Blank or XGC	0=120/240 Vac/Vdc 1=24/48 Vdc	0=None
SE-135	Blank or XGC	0=120/240 Vac/Vdc 1=24/48 Vdc	0=None 3=Ethernet

ACCESSORIES	REQUIREMENT
SE-CS10 Series	Required
SE-CS40 Series (for SE-135)	Optional
SE-TA6A Series (for SE-134C)	Required
SE-TA12A/SE-TA12B Combination (for SE-134C)	Optional
SE-TA12A Series (for SE-135)	Required
SE-IP65CVR-G	Optional
RK-132	Optional
PPI-600V	Optional

See 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 conductor 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 drag-lines, mining shovels, shore-to-ship power cables, dock-side cranes, stacker-reclaimers, submersible pumps, and portable conveyors.

## Features & Benefits

FEATURES	BENEFITS
<b>Adjustable pickup</b> (0.5-12.5 A for SE-CS10) (2 - 50 A for SE-CS40)	Unit can be used on a wide variety of trailing cable applications
<b>Adjustable time delay</b> (0.1-2.5 s)	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
<b>XGC option</b>	Increases maximum cable length for ground-check monitoring (10 km typical)

## Accessories

A



### SE-CS10 or SE-CS40 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.

## Specifications

### IEEE Device Numbers

Checking or Interlocking Relay (3GC),  
Ground fault (50G/N, 51G/N)

### Input Voltage

65-265 Vac; 85-275 Vdc; 18-72 Vdc

### Dimensions

**H** 213 mm (8.4"); **W** 99 mm (3.9"); **D** 132 mm (5.2");

### Trip Level Settings

0.5-12.5 A for SE-CS10, 2 - 50 A for SE-CS40

### Trip Time Settings

0.1-2.5 s

### Contact Operating Mode

Selectable fail-safe or non-fail-safe

### Harmonic Filtering

Standard feature

### Test Button

Standard feature

### Reset Button

Standard feature

### Output Contacts

Isolated Form A and Form B, Two Form C

### Approvals

CSA certified, UL Listed (E340889),

C-Tick (Australia), CE

### Conformally Coated

Standard feature

### Warranty

5 years

### Mounting

Panel, Surface

### GC Trip Resistance

28Ω (Standard), 45Ω (XGC Option)