



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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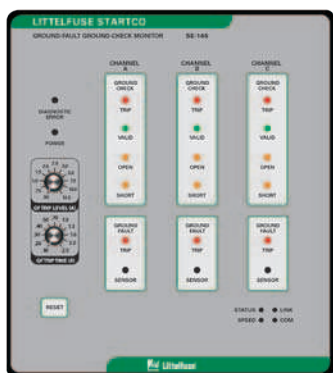
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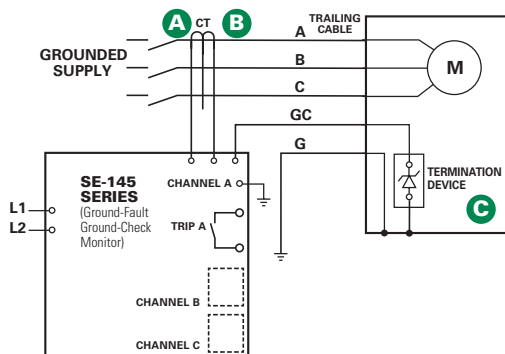


SE-145 SERIES

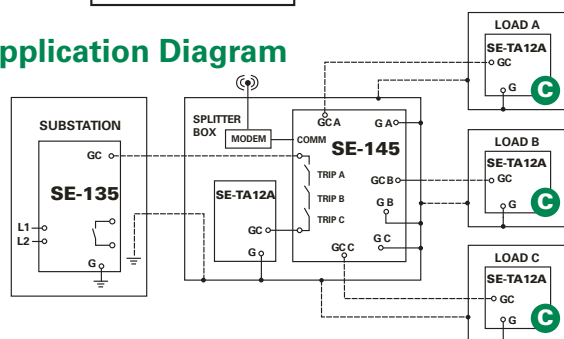
Ground-Fault Ground-Check Monitor



Simplified Circuit Diagram



Application 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

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

- A** **SE-CS10 Series Ground-Fault Current Transformer**
Zero-sequence current transformer detects ground-fault current. Provides 0.5 to 12.5 A trip range.
- B** **SE-CS40 Series Ground-Fault Current Transformer**
Zero-sequence current transformer detects ground-fault current. Provides 2.0 to 50 A trip range.
- C** **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	60-265 Vac, 60VA; 82-275 Vdc, 45W; 18-30Vdc, 45W
Dimensions	H 213 mm (8.4"); W 192 mm (7.6"); D 176 mm (7.0")
Trip Level Settings	0.5-12.5 A or 2.0-50.0 A
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
Communications	Ethernet Optional
Output Contacts	Isolated Form A and Form B
Conformally Coated	Standard feature
Warranty	5 years
Mounting	Panel, Surface