

PGR-5330 SERIES

Resistance Grounded Relay



Description

The PGR-5330 is an advanced ground-fault and resistor-monitoring relay. The PGR-5330 measures neutral current, neutral-to-ground voltage and neutral resistance. It provides continuous monitoring of the neutral-to-ground path to ensure the neutral-grounding resistor (NGR) is intact. This is of utmost importance on resistance-grounded systems because open NGRs render current-sensing ground-fault protection inoperative.

Applications

The PGR-5330 can be applied to high- and low-resistance-grounded transformers and generators in processing, manufacturing, chemical, forestry, petroleum, and water-treatment facilities.

Features/Benefits

- Detects ground faults
- Pulsing circuit and output contact for locating ground faults
- Continuously monitors neutral-ground-path continuity
- PGE sensing resistor eliminates hazardous voltage at relay
- Software for remote operation and data logging
- Standard RS-232 interface, optional network communications
- Wide set point ranges—compatible with any neutral connected NGR up to 35 kV system voltage
- DFT (harmonic) filter prevents nuisance tripping

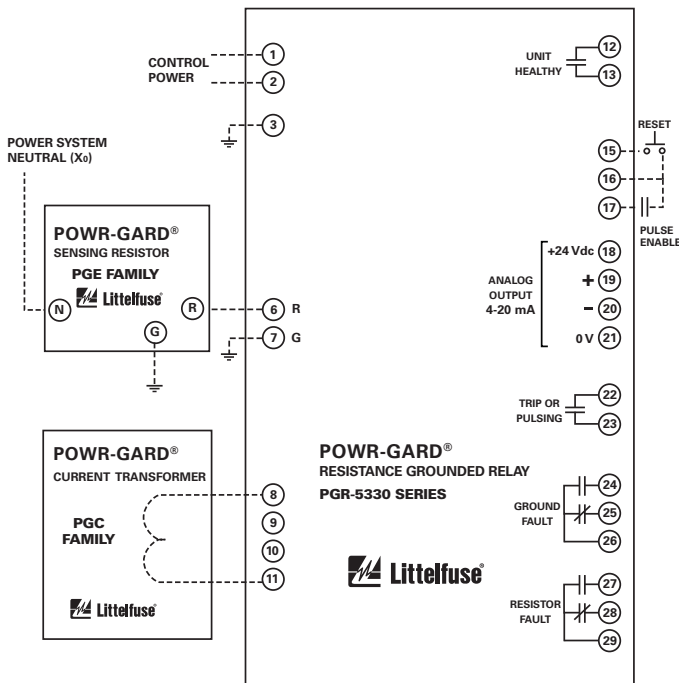
Ordering Information

PGR-5330-00-00	RS-232 Communications	80–265 Vac/dc
PGR-5330-01-00	RS-232 & DeviceNet™	80–265 Vac/dc
PGR-5330-02-00	RS-232 & Profibus®	80–265 Vac/dc
PGR-5330-03-00	RS-232 & Ethernet	80–265 Vac/dc

NOTE: For 36-72 Vdc Control Power use part numbers PGR-5330-20-00, PGR-5330-21-00, PGR-5330-22-00 or PGR-5330-23-00 respectively.

Specifications

IEEE Device Numbers	50G, 50N, 51G, 51N, 59N, 86
Input Voltage	See Ordering Information
Dimensions	H 150 mm (5.9"); W 109 mm (4.3"); D 100 mm (4.0")
GF Trip-Level Settings	2–100% of CT-Primary Rating
GF Trip-Time Settings	0.1–10 s
RF Trip-Level Settings	20–2000 Vac (≤5 kV systems) 100–10000 Vac (>5 kV systems)
Contact Operating Mode	Selectable fail-safe or non-fail-safe
Harmonic Filtering	Standard
Reset Button	Standard
Relay Contacts	N.O. and N.C.
Pulsing Circuit	1.0–3.0 s in 0.2 s increments
Approvals	CSA certified to US and Canadian standards
Communications	RS-232; DeviceNet™, Profibus®, Ethernet
Analog Output	4–20 mA
Conformally Coated	Standard
Warranty	5 Year
Mounting	Panel, Surface



See pg. 31-36 for Current Transformer Selection Guide and Accessory Information.