WGD Series — Floating Ground

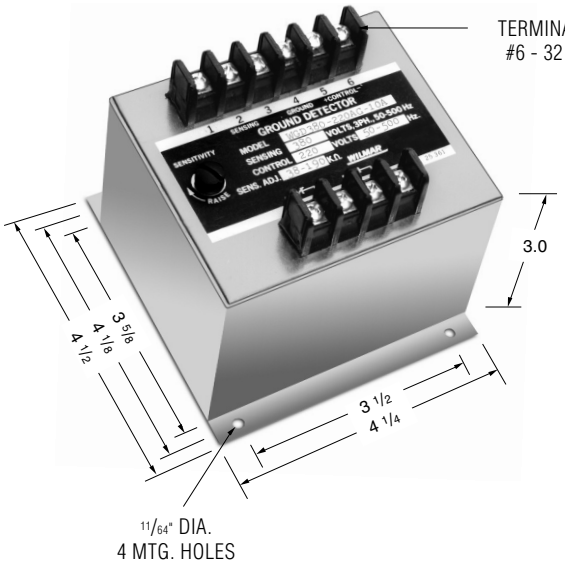
Product Facts

- **ANSI/IEEE C37.90-1978**
- **UL file No. E58048**
- **CSA file No. LR61158**

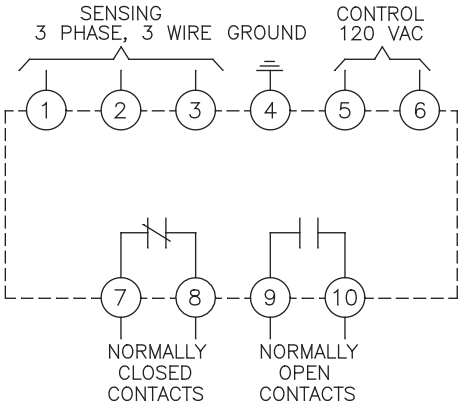
Ground Fault Detectors are used to sense leakage current to ground in power transformers and generators. They are available for both AC and DC systems. Some generator systems provide auxiliary power outlets for small equipment. TE Connectivity GFD's eliminate personnel risk of accessing these outlets if a ground fault exists. Diesel locomotives and railroad line signal boxes also use GFD's for operational control purposes. The GFD monitors both positive and negative grounds for fault currents and can trigger either notification or system shutdown if these are detected. GFD's are available for both grounded and ungrounded systems.

Operation

When the resistance between any phase to ground falls below the set point the relay will energize; The normally closed contacts will open, the normally open contacts will close.



Note: Dimensions in inches. Multiply values by 25.4 for dimensions in mm.



Ordering Information

Sample Part Number ▶ WGD-

Type:	Volts L-L	Trip Point Adj. Phase to Ground
115-120AC	115	11-55KΩ
120-120AC	120	12-60KΩ
200-120AC	200	20-100KΩ
208-120AC	208	21-105KΩ
220-120AC	220	22-110KΩ
230-120AC	230	23-115KΩ
240-120AC	240	23-115KΩ
380-120AC	380	38-190KΩ
400-120AC	400	40-200KΩ
416-120AC	416	42-210KΩ
440-120AC	440	44-220KΩ
460-120AC	460	46-230KΩ
480-120AC	480	48-240KΩ
525-120AC	525	52-260KΩ
575-120AC	575	57-285KΩ
600-120AC	600	60-300KΩ

Product Specifications

Sensing Voltage (±10%) — 3 phase, 3-wire. See Ordering Information.

Control Voltage — 120 Volts AC

Contacts Trip Points (sensitivity) — Screwdriver adjustable. See Ordering Information.

Pick-up Time Delay — 1.5 seconds approximately

Contact Ratings — 5 amp resistive at 120 VAC or 28 VDC

Operating Temperature — -40°C to +65°C

Temperature Effects — ± 1% over temperature range

Power Consumption — Sensing: —2 mA/Phase Approx., Control — 2VA at 120VAC

Surge Withstand Capability — In accordance with the requirements of ANSI/IEEE

Notes:
1. Remove screw for access to the pick-up adjustment potentiometer.
2. Clockwise rotation of the adjustment potentiometer will raise the relay sensitivity.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com