

CDI Precision Measurement Introduces NK Technologies Ground Fault Sensors

## **Description**







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## What exactly is a Ground Fault Sensor, and why could it be so important to the su of your operation?

Ground faults occur when current accidentally flows from an energized conductor to the ground, which c inadvertently energize other equipment and potentially cause harm if touched. This occurs when an enewire comes into contact with the ground part of a junction box or other appliance or device.

Electricity always finds a path to the ground, but in the case of a ground fault, the electricity flows through unintended path such as a human, animal or equipment.

A ground fault is similar to a short circuit (phase to phase faults) in that large amounts of current are force through a fuse or circuit breaker which causes the fuse to blow or a circuit breaker to trip. Phase to phase happen when an electric flow strays outside its intended circuit, causing the circuit breaker to trip, stoppi current flow. This typical occurs when a hot wire comes loose and into contact with a neutral wire.

Ground faults are much more common than phase to phase (short circuit) faults. Click here to learn more.

How NK Technologies / Component Distributors, Inc. Ground Fault Sensors Can Help with Your

As an industrial/commercial engineer, you may already be aware that per the current NEC code, three p and/or high amperage electrically operated commercial kitchen equipment now requires ground fault pro

3 Phase GFCI circuit breakers over 30 amps are not something readily available from most electrical supfor new installations or easily retrofitted into existing kitchens. Making a regulation is the easy part; making solution can be more difficult and challenging.

If the circuit breaker feeding the equipment can be fitted with a shunt trip operating mechanism, the <u>AG</u> <u>series sensors</u> with auto reset contacts will detect the fault, and, in turn, will close the circuit to energize shunt trip solenoid. If the equipment is operated with a magnetic contactor, the sensor used should be the latching output type. The NK Technologies' sensor contact will be connected to de-energize the contact when a fault is detected.



## **Features**

#### **ELECTROMECHANICAL RELAY OUTPUT**

Provides both normally open and normally closed contacts Compatible with most automation and control systems

## **EXTERNALLY POWERED**

A choice of fail-safe or standard operation

### SIMPLE FIELD SETPOINT ADJUSTMENT

Single turn potentiometer with setpoint shown on label Adjustable delay to mask out nuisance fault current

## LARGE SOLID-CORE CASE

Large sensing window provides ample space for multiple conductors

#### **DIN RAIL MOUNT**

Simple snap onto DIN rail or attach with screws to a panel for secure mounting

## **Applications**

## **Monitor Large Machines**

• Detect leakage to earth before the problem can cause damage.

### **Water Delivery and Treatment**

• Keep pumping systems safe and in operation.• Sense faulting stator windings prior to failure.

#### **Generators**

• Shut down equipment when leakage current exceeds hazardous levels.

#### **Downloads**

Download the NK Technologies Technical Guide to Ground Fault Sensing

Download the 2020 Product Catalog

## **Buy Now**

## **About Component Distributors, Inc. (CDI)**

Component Distributors, Inc. (CDI) is a value-added distributor of Precision Gaging and Metrology So

## Category

- 1. Ewave
- 2. NK Technologies
- 3. Precision Measurement

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