

Bender engineers have developed a solution capable of identifying which particular circuit(s) is contributing to a ground fault on an ungrounded system. Our fully automated EDS440 series ground fault location systems are designed to reduce maintenance cost and increase equipment uptime.

### How does an EDS ground fault location system work?

When an Insulation Monitoring Device (IMD) such as the **iso685-D-P** detects the occurrence of a ground fault, it activates the EDS440 series ground-fault location system. The IMD generates a defined locating signal that flows to the ground fault. The locating signal is driven by the system voltage and can be detected in the faulted circuit using a permanently installed or clamp-type measuring current transformers. The ground fault location is communicated from the EDS440 module to the iso685 which displays the information, and can send it to the facility data network.

## **Benefits**



#### **Detect and locate faults without interrupting operations**

Electrical issues can be detected and located while keeping the installation fully energized.



#### Reduce maintenance costs

Significant decrease in maintenance costs due to the accuracy of detection and decreased need for human interaction with the system.



#### **Automatically locate faults**

Automatic fault location eliminates the need for maintenance personnel to open branch circuit breakers or disconnect equipment.



#### **Clear fault location indication**

Easy-to-read indication of the faulted circuit shown on IMD LC Display and EDS LEDs.

## **Industrial EDS Systems**



- Automatic Ground-Fault Locator ISOSCAN® EDS440 Series
- Automatically locates faults
- Minimizes unplanned outages
- Eliminates the need to interrupt power to identify faulted circuits



- Insulation Condition Monitor ISOMETER® iso685-D-P
- Detects the presence of a ground fault and injects a location signal to be detected by an EDS device
- Displays insulation resistance and fault location when paired with EDS440



# Portable Fault Locator ISOSCAN® EDS195PM

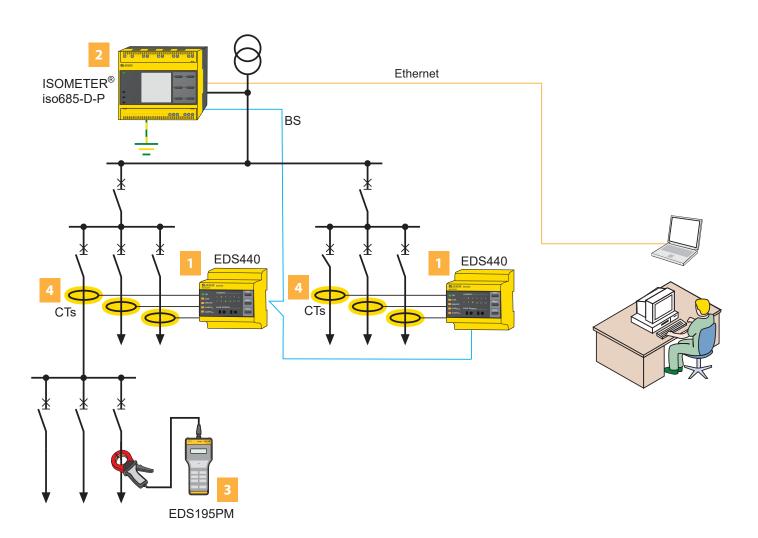
- Pinpoints fault location to load circuits when paired with iso685-D-P
- Final run location after the faulted feeder is automatically alarmed



# 4 Current Transformers Wx-Sxx Series

- Permanently installed sensors connect to EDS440 to detect fault-locator signal
- Fits any installation





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