



# OpsAware™

## Essential Sensors

### IFD Sensor™

The IFD Sensor™ is a factory-installed fault detector that gives crews a simple visual alert when an internal arc occurs in a distribution transformer. With the IFD Sensor, line workers stay safe when troubleshooting and get the lights on faster.

#### 1. Protect the line worker

Warn crews the transformer is faulted and is dangerous to re-energize.

#### 2. Improve SAIDI (system reliability)

Empower line workers to identify the outage cause faster and get the lights back on sooner.

#### 3. Cut operating costs

Save money on unnecessary costs, including troubleshooting time, wasted fuses, good transformers taken down in error, and safety and environmental incidents.

“This is a no-brainer. The IFD improves safety and pays for itself every time we look at it, whether it activated or not.”

*Line Superintendent - Investor Owned Utility*

“Finally, a safety product that makes us money”

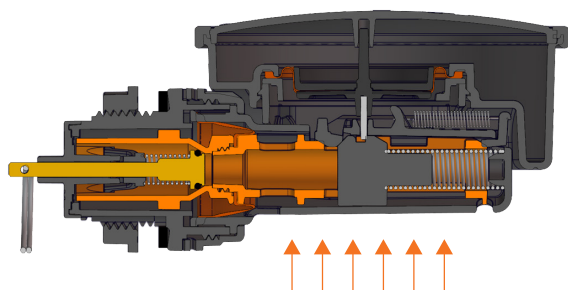
*I.O.U. Vice President Distribution*

SEE THE SIGNAL.  
REPLACE THE  
TRANSFORMER.

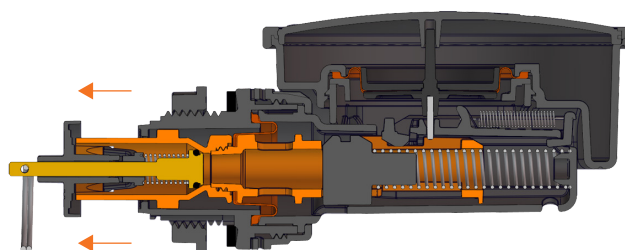


## HOW IT WORKS

The breakdown of oil, caused by an internal arc, results in a gas bubble and rapid pressure rise that activates the IFD Sensor's bright orange indicator outside the tank. This immediately warns line crews that the transformer has faulted and is dangerous to re-energize.



Rapid Pressure Rise



Orange Indicator Activates

## DESIGN FEATURES

### 1. Reliable

Will not activate from slow pressure rises associated with non-fault events such as overloads.

### 2. Precise

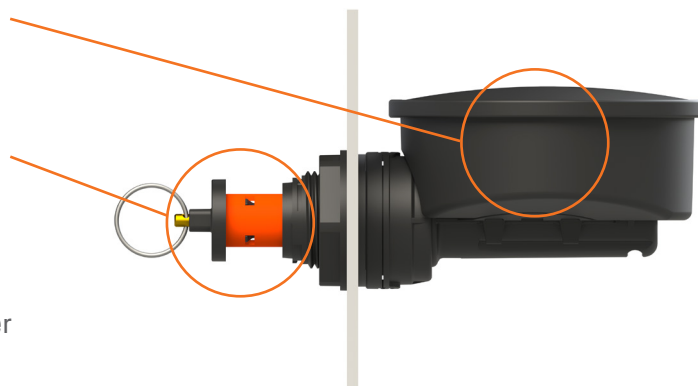
Tuned to detect low impedance faults: rapid pressure rises (less than 1 cycle) with small pressure magnitudes (as low as 0.5 psi).

### 3. Factory installed and warranted

Consistent standard procedures at more than 80 transformer manufacturers across the world.

### 4. Industry proven

Millions of IFD Sensors in service and 25+ years of success.



## SAMPLE SPEC WORDING

"Each transformer shall be equipped with an IFD Sensor produced by IFD Technologies, a non-resettable device which detects and provides external indication of internal transformer faults and provides pressure relief functionality. Installation shall be as per the specifications provided by IFD Technologies."

## READY TO IMPROVE YOUR DISTRIBUTION NETWORK?

**Contact us today!**

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