IPES IR3 Frequently Asked Questions

What is the difference between the IPES IR3 and IPES IRUV?
The IPES IR3 flame detector uses 3 infrared sensors to determine the conditions of a fire alarm. The IPES IRUV uses two sensors, ultraviolet and infrared, to declare a fire alarm. The IPES IR3 has detection range of 210feet compared to 100 feet of the IPES IRUV flame detector.

What is the conical field of view of the IPES IR3 flame detector?
The IPES IR3 flame detector has 90 degrees conical field of view.

How type of fuel-based fires can the IPES IR3 detect?
The IPES IR3 flame detector can detect only hydrocarbon fuel-based fires.

How can the IPES IR3 flame detector be tested in the field?
The IPES IR3 can be tested using ESP Safety's ITES Test Lamp, which will simulate a fire alarm condition that the flame detector can detect.

What accessories are included with the IPES IR3 flame detector?
A mounting bracket, mounting hardware, and a rubber sun visor is included with the flame detector.

What housing material options are available for the IPES IR3?
The IPES IR3 flame detector is available in aluminum and stainless-steel housings.

What are the signal outputs of the flame detector?
The standard output signals are 4-20mA analog, RS485, and relays.

Are the Fire and Fault Relays configurable in the field?
No, the Fire and Fault Relays are currently only configurable at the factory. Default Settings are Fire: Normally Open and Fault Normally Closed.

What is the required power input for the flame detector?
The IPES IR3 requires 24VDC power input.

What are the tricolor LED indicators?
The IPES IR3 LED indicators are GREEN for normal conditions, AMBER for fault or blockage of lenses, and RED for fire alarm.

How to clear a latched Fire Alarm?
The default settings for the fire relay alarm are non-latching, once the fire is cleared from the field of view of the IPES IR3, the flame detector returns to normal conditions. If the fire relay is set to latching mode when there is a fire, even if the fire is removed from the field of view, the IPES IR3 flame detector's fire alarm will remain latched.
The fire relay can be reset to normal conditions using the magnet directly on the flame detector or using ESP Commander software via RS485, or power cycling the flame detector.

Can the IPES IR3 flame detector be repaired in the field?
No, the flame detector should only be repaired at the factory. Attempting to repair the flame detector in the field will void the factory warranty.

Is the IPES IR3 flame detector protected from Electro-magnetic-interference?
Yes, the IPES IR3 flame detector has EMI protection and is tested at the factory.

Does the IPES IR3 has a self-check integrity test?
Yes, the IPS IR3 performs a self check test every 35 minutes to ensure its functionality.