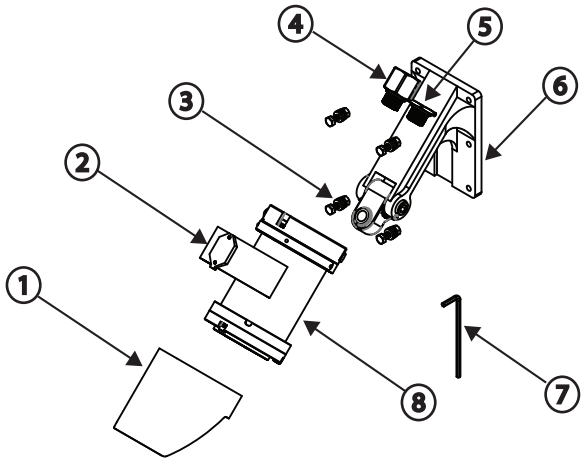
IPES FLAME DETECTOR
QUICK INSTALLATION GUIDE

COMPONENTS:



The typical IPES delivery set consists of the following components

1. Visor (Qty 1), P/N 125-0005
2. Magnetic Collar (Qty 1), P/N 120-0006 *one provided per 1-10 IPES
3. Mounting Bolts (Qty 4), P/N 125-0019
4. M20 to 3/4" NPT Adapter (Qty 1), P/N 420-0208
5. M20 Threaded Plug (Qty 1), P/N 420-0209
6. Mounting Bracket (Qty 1), P/N 125-0003
7. 4mm Hex Wrench (Qty 1), P/N 120-0077 *one provided per 1-10 IPES
8. IPES Flame Detector (Qty 1)
   IR3 (aluminum) P/N 100-0017-01
   IR3 (stainless steel) P/N 100-0016-01
   IR/UV (aluminum) P/N 100-0003-01
   IR/UV (stainless steel) P/N 100-0010-01

OVERVIEW

This Quick Start Guide provides basic guidelines for mechanical and electrical installation of the IPES Flame Detector in preparation for product startup. For detailed testing, troubleshooting and operation instructions, refer to the IPES Operating Manual for your model.

The IPES Operating Manual can be downloaded from the ESP Safety website:

www.espsafetyinc.com

Prior to startup of the IPES Flame Detector, review that the following have been completed:

Pre Startup Checklist:

1. Verify that the IPES Flame Detector has been properly mounted.
2. Verify that all conduit/cable gland entries have been tightened and sealed, if necessary
3. Verify that all detector wiring has been installed correctly.
4. Verify that the detector is properly earth grounded.
5. Verify that the detector rear cover is securely fastened.
6. Disconnect or power down all output devices and alarms to prevent false actuation.

The following items for the IPES may be ordered:

Accessories:

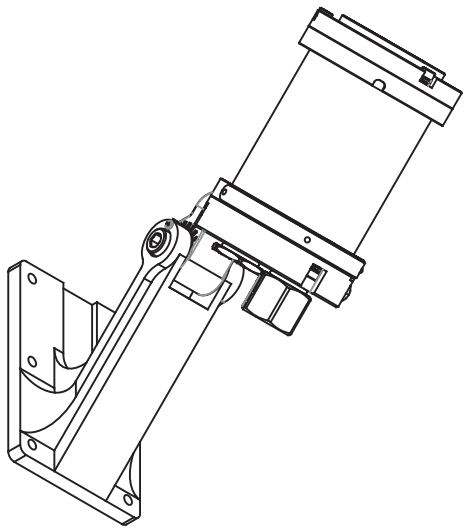
Visor, P/N 125-0005
Mounting Hardware, P/N 125-0019
ITES Test Lamp, P/N 120-0007
Magnetic Collar, P/N 120-0006

Contact ESP Safety:

USA

555 North First Street
San Jose, CA 95112
USA
Tel: (408) 886-9746
Fax: (408) 668-0848
email: info@espsafetyinc.com

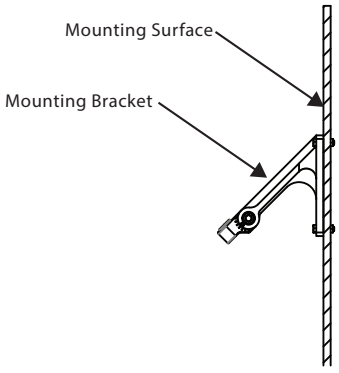
ESP SAFETY INC



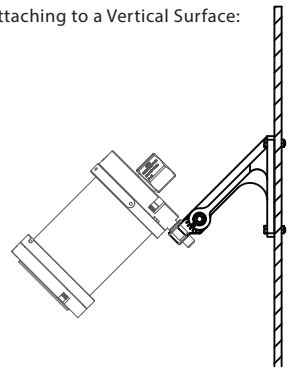
IPES FLAME DETECTOR

IPES IR3-AL: Multispectrum IR, Aluminum (Red), P/N 100-0017-01
IPES IR3-SS: Multispectrum IR, Stainless Steel, P/N 100-0016-01
IPES IR/UV-AL: Dual Channel IR/UV, Aluminum (Red), P/N 100-0003-01
IPES IR/UV-SS: Dual Channel IR/UV, Stainless Steel, 100-0010-01

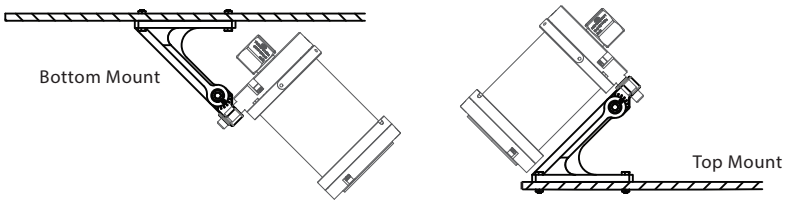
Secure mounting bracket to a stable surface.



Attaching to a Vertical Surface:

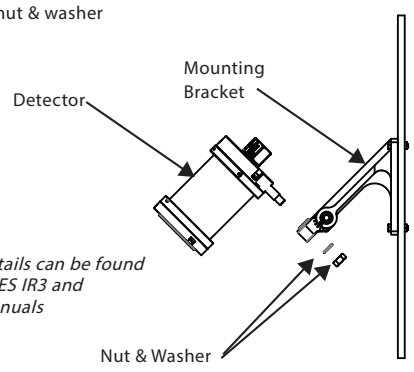


Attaching to a Horizontal Surface:



Additional mounting details can be found on pages 11-12 of the IPES IR3 and IPES IR/UV Operating Manuals

1. Connect the flame detector to the mounting bracket.
2. Secure with supplied nut & washer



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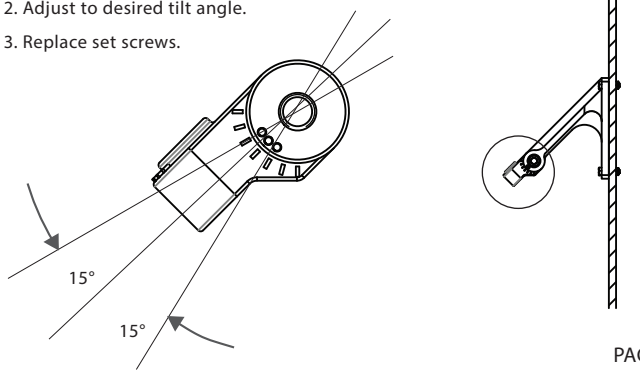
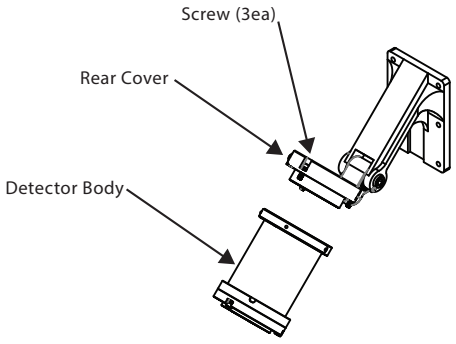
Adjust detector tilt angle.

1. Remove set screws from adjustment arm.
2. Adjust to desired tilt angle.
3. Replace set screws.



Connect wiring to the IPES terminal blocks. Note: The IPES Flame Detector requires a 24VDC power source (18-32VDC voltage range)

1. Separate the detector body from the rear cover by loosening the 3 screws using the supplied 4mm hex wrench.



2. Connect wiring to the appropriate terminals on the terminal blocks. Refer to diagram on Page 6 for terminal label and function.

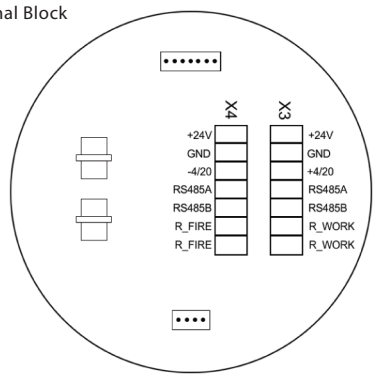
3. When completed, reattach the detector body to the rear cover. Secure with the supplied screws.

4. Run the earth ground wire to the external ground stud on the detector cover.

The magnetic test collar may be shipped attached to the IPES body. The test collar blocks all output signals from the IPES and is to be used only for functional testing of the detector and removed during normal operation.

Additional wiring details can be found on pages 12-16 of the IPES IR3 Operating Manual or pages 13-15 of the IPES IR/UV Operating Manual

IPES Terminal Block



TERMINAL BLOCK	LABEL	FUNCTION
X3	+24V	24V from system power source
X3	GND	System Ground from system power source
X3	+4/20	+4 to20mA current loop output
X3	RS485A	RS-485 MODBUS
X3	RS485B	RS-485 MODBUS
X3	R_WORK	Fault Relay, NC when energized
X3	R_WORK	Fault Relay, NC when energized
X4	+24V	Output to next device if required
X4	GND	Output to next device if required
X4	-4/20	-4 to20mA current loop output
X4	RS485A	Output to next device if required
X4	RS485B	Output to next device if required
X4	R_FIRE	Alarm Relay, NO when energized
X4	R_FIRE	Alarm Relay, NO when energized

Additional wiring details can be found on pages 12-16 of the IPES IR3 Operating Manual or pages 13-15 of the IPES IR/UV Operating Manual