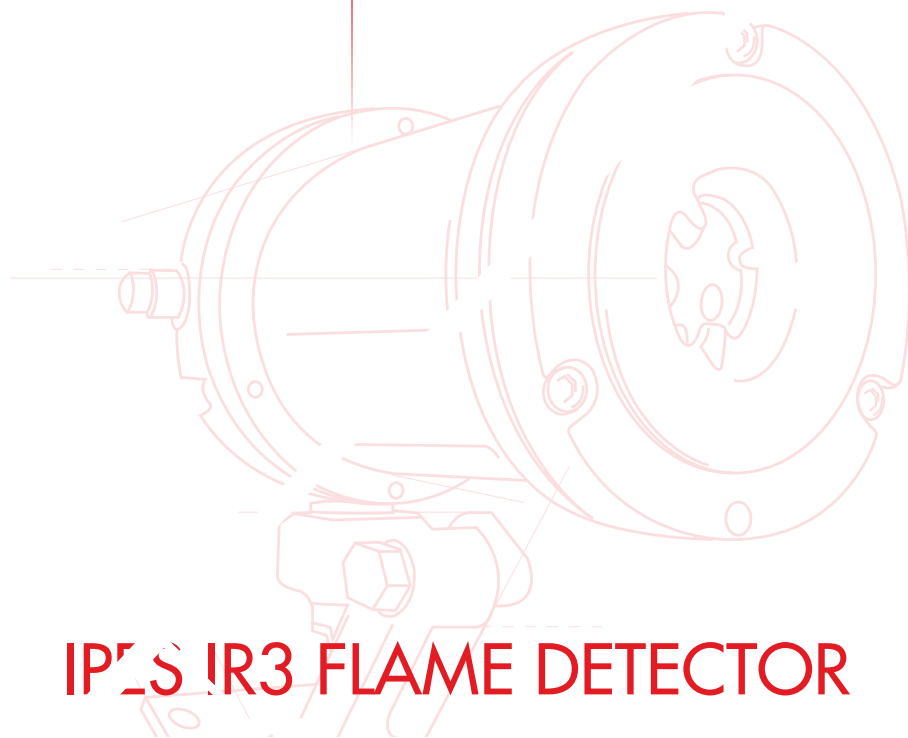




Technology of the Future
Protection for today



IP'S IR3 FLAME DETECTOR

Electrical Characteristics

Operating Voltage 8 to 32 VDC

Power consumption <2 W, standby
<3 W, during alarm
<7.5 W, with heater on maximum

Outputs Current Analog signal 4-20mA
Fault signal 2 mA $\pm$ 0.1 mA
Ready signal 4 mA $\pm$ 0.1 mA
Fire signal 18 mA $\pm$ 0.1 mA
Test Mode 8 mA $\pm$ 0.1 mA

RS 485, Modbus RTU, Profibus

Relay Contact Fire Alarm: - From J1 (1,2)
- normally open relay
- closed on fire detection
- latching/non-latching

Fault: - From J1 (3,4)
- normally closed relay
- open on fault detection
- latching/non-latching

Operating Temperature -40°F to +185°F
(-40°C to +85°C)

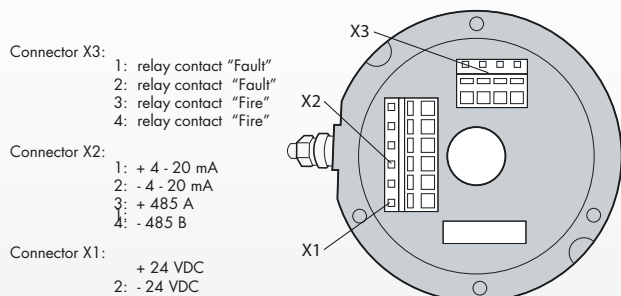
Storage Temperature -76°F to +185°F
(-60°C to +85°C)

Humidity Up to 95 % Relative humidity, non-condensing
(withstands up to 100% RH for short periods)

Wiring 14 AWG (2.08 mm²) or 16 AWG (1.31 mm²)
Shielded cable is recommended

Arrangement and functions of connection terminals

The Figure presents the arrangement and function of mounting connection terminals on the IPES back plane (viewed from the side where the elements are mounted).



Mechanical characteristics:

Material Aluminum (standard); Stainless steel (optional)

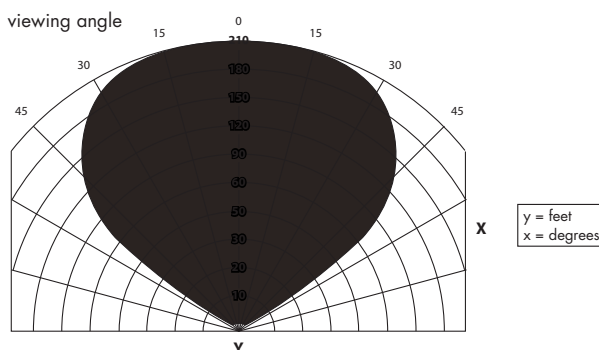
Cable Entry 3/4 inch -14 NPT

Weight Aluminum: 5.5 lbs (2.5 kg)
Stainless steel: 11 lbs (5.0 kg)

Warranty 5 years

Field of View

Fuel	Horizontal (Left)	Horizontal (Right)	Vertical (Up)	Vertical (Down)	Min. Distance Feet (M)	Avg. Time
n-Heptane	50°	50°	50°	50°	56.1 (17.1)	3 sec.
Methanol	50°	50°	50°	50°	41 (12.5)	3 sec.
JP5	50°	50°	50°	50°	82 (25)	3 sec.



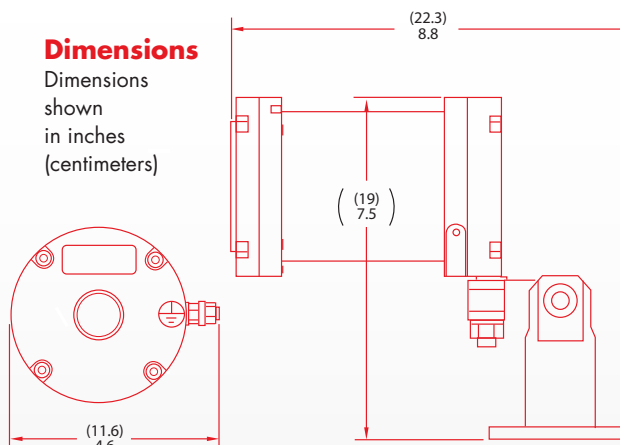
Response:

Very High Sensitivity

Fuel	Size	Distance Feet (M)	Typical Response Time (Sec.)
n-Heptane	1 ft x 1 ft	210 (64)	6
Methanol	1 ft x 1 ft	150 (45.7)	7
JP5	2 ft x 2 ft	210 (64)	4.5

Dimensions

Dimensions shown in inches (centimeters)



Certification:



Class I, Division 1,
Groups B, C & D,
T5 Ta = -40°F to + 185°F
(-40°C to + 85°C)
IP66



Class I, Division 1,
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T5 Ta = -40°F to + 185°F
(-40°C to + 85°C)
IP66



Certificate of Conformity:
CE Mark for EMC (TUV)
CE Mark for IECEx



Ex B IIC T5 Ta =
-40°F to +185°F
(-40°C to + 85°C)

