

FlameSpec-IR3

Triple IR Flame Detector

Model: FLS-IR3

Response Characteristics (not exhaustive)

Fuel	Size	Sensitivity	Distance ft. (m)	Avrg Resp. Time (s)
n-Heptane	1 x 1 ft.	Extreme	262 (80)	7.1
n-Heptane	1 x 1 ft.	Extreme	230 (70)	3.7
n-Heptane	1 x 1 ft.	High	197 (60)	2.7
n-Heptane	1 x 1 ft.	Medium	98 (30)	2.6
n-Heptane	1 x 1 ft.	Low	49 (15)	1.3
n-Heptane	1 x 1 ft.	Very Low	24.5 (7.5)	1.0
Gasoline	2 x 2 ft.	Extreme	328 (100)	5.3
Gasoline	1 x 1 ft.	Extreme	230 (70)	2.8
Gasoline	1 x 1 ft.	Medium	98 (30)	1.5
Methane	32-in Plume	Extreme	148 (45)	2.6
Methane	32-in Plume	Medium	82 (25)	0.6
LPG	32-in Plume	Extreme	180 (55)	3.7
LPG	32-in Plume	Medium	98 (30)	1.4
LPG	32-in Plume	Low	49 (15)	1.5
Diesel	1 x 1 ft.	Extreme	164 (50)	2.6
Diesel	1 x 1 ft.	Medium	79 (24)	3.2
JP5	2 x 2 ft.	Extreme	295 (90)	9.4
JP5	1 x 1 ft.	Extreme	164 (50)	4.5
JP5	1 x 1 ft.	High	148 (45)	4.4
JP5	1 x 1 ft.	Medium	79 (24)	1.8
Kerosene	1 x 1 ft.	Extreme	164 (50)	3.6
Kerosene	1 x 1 ft.	Medium	79 (24)	2.7
Methanol	1 x 1 ft.	Extreme	131 (40)	4.6
Methanol	1 x 1 ft.	High	125 (38)	4.2
Methanol	1 x 1 ft.	Medium	75 (23)	1.5
Ethanol	1 x 1 ft.	Extreme	125 (38)	4.7
Isopropanol	1 x 1 ft.	Extreme	180 (55)	3.6
Isopropanol	1 x 1 ft.	Medium	75 (23)	1.8
Polypropylene	1 x 1 ft.	Extreme	115 (35)	7.8
Polypropylene	1 x 1 ft.	Medium	66 (20)	2.1
Syngas (30%CH ₄ 70%H ₂)	32-in Plume	Extreme	98 (30)	3.3
Syngas (30%CH ₄ 70%H ₂)	32-in Plume	Medium	49 (15)	1.3
Wood	1 x 1 ft.	Extreme	137 (42)	4.2
Wood	1 x 1 ft.	Medium	74 (22.5)	2.1

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Immunity to False Alarm

False Alarm Source	Modulated		Unmodulated	
	Distance ft. (m)	Response	Distance ft. (m)	Response
Sunlight, (direct or reflected)	No response		No response	
Sunlight, (direct or reflected) with water droplets on sensors	No response		No response	
Incandescent frosted glass light, 300W	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Fluorescent, 70W (3x23.3W)	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Electric arc	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Arc welding	12.0 (3.5)	No Alarm	12.0 (3.5)	No Alarm
Radiation heater, 1850W	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Radiation heater, 1850W with water droplets on sensors	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Quartz lamp (1000W) shielded	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Quartz lamp (500W) non-shielded	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Mercury vapor lamp 160Wx3	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Car Exhausts	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Projector led	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Solenoid bell	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Soldering iron	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm
Electric Drill	2.0 (0.5)	No Alarm	2.0 (0.5)	No Alarm

