

keep a **SharpEye™** on your safety



The 40/40 Series Flame Detectors and Accessories

The new SharpEye 40/40 Series Flame Detectors from Spectrex provide the most comprehensive protection against hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. The detectors provide early warning of fires at long distances with high immunity to false alarms.

The new 40/40 series designs are the highest performance, cost effective flame detectors currently on the market. New features include a stainless steel housing with a beated window, to eliminate condensation and icing; HART capabilities for digital communications; lower power requirements; and a compact, lightweight but highly durable and weather resistant design.

The 40/40 flame detector series is highly reliable, with a newly extended 5-year warranty period and compliance with the IEC 61508 Safety Integrity requirements of SIL2.

A leader in the flame and gas detection industry for over 15 years, Spectrex products are fully certified and employed around the world in a wide range of industrial and commercial facilities.

40/40M

Multi IR Flame Detector

Detects hydrocarbon and hydrogen flames at long distances and provides the highest immunity to false alarms with its multi spectrum design. The 40/40M can detect a gasoline pan fire at 215 ft (65m), or a hydrogen flame at 100 ft (30m) in less than 5 seconds.

40/40I

Triple IR (IR3) Flame Detector

Detects hydrocarbon fuel and gas fires at long distances and provides the highest immunity to false alarms with its triple spectrum design. The IR3 can detect a 1ft² (0.1m²) gasoline pan fire at 215 ft (65m) in less than 5 seconds.

40/40L-LB

UV/IR Flame Detector

Models 40/40L (& LB) - A dual UV and IR detector, comprising an IR sensor that operates at a wavelength of 2.5-3.0 µm and a UV solar blind sensor, the 40/40L detects hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. The UV sensor has a special logic circuit that prevents false alarms from solar radiation.

40/40L4-L4B

UV/IR Flame Detector

Models 40/40L4 (& L4B) - A dual UV and IR detector, comprising an IR sensor that operates at a wavelength of 4.5 µm and a solar blind UV sensor, the 40/40L4 detects only hydrocarbon-based fuel and gas fires.

40/40U-UB

UV Flame Detector

Detects hydrocarbon-based fuel and gas fires, invisible hydrogen flames and fires from hydrides, ammonia, silane and other organic materials with its unique UV solar blind sensor. The 40/40UB model includes a Built-in-Test (BIT) feature.

40/40R

Single IR Flame Detector

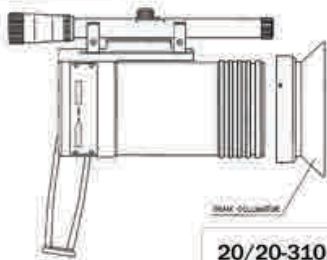
Detects hydrocarbon-based fuel and gas fires, comprising an IR sensor working at 4.5 µm wavelength for maximum sensitivity and provides immunity to false alarms from IR sources such as sunlight and IR projectors.

COMMON SPECIFICATIONS

Operating Voltage	24 VDC nominal (18-32 VDC)	
Power Consumption	Standby: max 100mA Alarm: max 150mA (add 50mA for heated window)	
Field of View	100° horizontal and 95° vertical on most models	
Outputs	- Relays (Alarm, Fault, Auxiliary) - 0-20mA (stepped) - HART protocol for maintenance and asset management - RS-485, Modbus Compatible	
Built-in-Test (BIT)	Auto/manual self test	
Heated Optics	To eliminate condensation and icing on the window	
Cable Entries	2 x 3/4"-14NPT or 2 x M25 x 1.5 mm ISO	
Temperature Range	Operating: -67°F to 167°F (-55°C to +75°C) Option: -67°F to 185°F (-55°C to +85°C) Storage: -67°F to 185°F (-55°C to +85°C)	
Housing	316L Stainless steel (electro polished) or heavy duty copper-free aluminum	
Weight	Detector (St.St.)	5.5 lb (2.5 kg)
	Detector, aluminum	2.5 lb (1.2 kg)
Dimensions	3.5" x 4.5" x 6.1" (90 x 114 x 156 mm)	
Warranty	5-Year	
Ex Approved for Zone 1 hazardous area locations:	ATEX and IECEx FM CSA	
Performance	FM-3260 (FM) EN54-10 (LPCB)	
Reliability	IEC61508 - SIL2 (TUV)	

ACCESSORIES

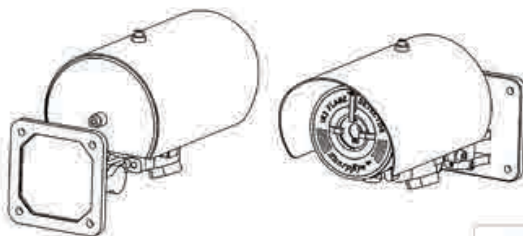
Fire Simulator



20/20-310, 311, 312, 313

The Long Range Flame Simulators will 'proof' test our flame detectors to verify reliable operation of detector and control system loop without the need for a real flame. No need for expensive scaffolding and other access problems - operates at distances up to 30ft/9m from detector.

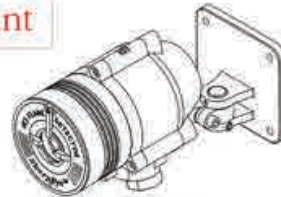
Weather Protector



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The Weather Protector is designed to protect the detector from rain and snow and direct extreme temperatures from the sun (remember our detectors can operate in ambients up to 185°F/85°C without protection)

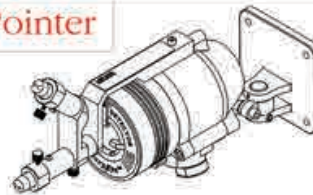
Tilt Mount



40/40-003

The Tilt Mount is an adjustable mounting bracket to allow the detector to be oriented towards the intended fire detection area to maximise coverage.

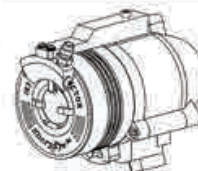
Laser Pointer



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The Laser Detection Area Coverage Pointer enables designers and installers to assess and optimise, on site, the actual location and area coverage (cone of vision) of our flame detectors.

Air Shield



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The Air Shield enables the connection of a compressed air line to provide an 'air curtain' that helps avoid accumulation of dirt on the detector window thereby reducing maintenance need and frequency in polluted or dirty environments.