

40/40D Series

The Next Step in The Optical Flame Detection Industry With Superior Performance and Reliability

- Longest distance detection with revolutionary optics in extreme environments
- Fastest – Ultra fast response to fire
- Widest operation temperature range -76 to +185 °F (-60 to +85 °C)
- Flawless operation with optical integrity - Smart Field-of-View & IR/UV BIT
- Proprietary algorithm to eliminate false alarms

SharpEye 40/40D-I

Multispectrum Quad-Sense IR3 for an exceptional ultra fast detection of hydrocarbon fires at up to 295 ft. (90 m) in under 50 msec

SharpEye 40/40D-M

Multispectrum Quad-Sense IR3 for an exceptional ultra fast detection of hydrogen at up to 165 ft. (50 m) and hydrocarbon fires at up to 295 ft. (90 m) in under 50 msec



SharpEye 40/40D-LB

Integrated UV/IR channels for an ultra fast detection of hydrocarbon-based fuel and gas, hydroxyl, hydrogen, metal, inorganic fires in under 20 msec

SharpEye 40/40D-L4B

Integrated UV/IR channels for an ultra fast detection of hydrocarbon-based fuel and gas fires in under 20 msec

Key Applications

- Oil & Gas
- Petrochemicals plants
- Pipelines
- Storage Tank farms
- Power
- Generation facilities
- Refinery Hydrogenation
- Hydrogen Fuel Cell Industry
- Chemical plants
- Space Industry hydroxyl propellant
- Explosives & Munitions



KEEP AN EYE ON YOUR SAFETY



40/40C Series

New Sharpeye Flame Detectors with Enhanced Performance

- Based on proven SPX Triple-IR (IR3)
- Long distance detection with superior immunity to false alarms
- Fast detection with strengthened reliability and durability
- Ease of use & installation with Universal wiring option
- Globally certified, for use in the most demanding applications

SharpEye 40/40C-I

Multispectrum Quad-Sense IR3 detection of hydrocarbon-based fuel and gas fires at up to 215 ft. (65 m)

SharpEye 40/40C-M

Multispectrum Quad-Sense IR3 detection of hydrocarbon fires and hydrogen flames at up to 215 ft. (65 m)



SharpEye 40/40C-LB

Integrated UV/IR channels for a fast detection of hydrocarbon-based fuel and gas, hydroxyl, hydrogen, metal, inorganic in under five seconds

SharpEye 40/40C-L4B

Integrated UV/IR channels for a fast detection of hydrocarbon-based fuel and gas fires in under five seconds

Key Applications

- Waste processing
- Food & Beverage
- Paint Booths
- Aircraft hangars
- Transportation
- Battery charging stations



KEEP AN EYE ON YOUR SAFETY



40/40 Series Specifications

	40/40D-I	40/40D-M	40/40D-LB	40/40D-L4B
Maximum Detection Range	300ft (90m)		93ft (28m)	
Standard Response Time	Typically <2 sec at 131ft (40m)		Typically 5 sec at 93ft (28m)	
Ultra Fast Response Time	Typically <1 sec at 100ft (30m)		20 msec for flash fire pan fire from 10ft (3m) distance via analog voltage output	20 msec for flash fire pan fire from 3m distance
High Speed Response Time (explosion)	50 msec for 1ft diameter sphere LPG-air mixture explosion at 66ft (20m) via analog voltage output		50 msec for 1ft diameter sphere LPG-air mixture explosion at 32.8ft (10m) via analog voltage output	
No. of Sensitivities Options	6		3	
Field of View	Horizontal 100º; Vertical 95º	Horizontal 80º; Vertical 80º - for Gasoline Horizontal 90º; Vertical 90º - for Hydrogen	Horizontal 100º; Vertical 95º	
Built-In-Test	IR		UV & IR	
Temperature Range	-76ºF to +185ºF (-60ºC to +85ºC)			
Detects	Hydrocarbon fires	Hydrogen and hydrocarbon fires	Hydrocarbon-based fuel and gas, hydroxyl, hydrogen, metal, inorganic, etc.	Hydrocarbon-based fuel and gas fires

40/40C-I	40/40C-M	40/40C-LB	40/40C-L4B
215ft (65m)		50ft (15m)	93ft (28m)
Typically < 5 sec			
-			
-			
5		2	3
Horizontal 100°; Vertical 95°	Horizontal 80°; Vertical 80° - for Gasoline Horizontal 90°; Vertical 90° - for Hydrogen	Horizontal 100°; Vertical 95°	
IR		UV & IR	
-40°F to +167°F (-40°C to +75°C)			
Hydrocarbon fires	Hydrogen and hydrocarbon fires	Hydrocarbon-based fuel and gas, hydroxyl, hydrogen, metal, inorganic, etc.	Hydrocarbon-based fuel and gas fires

HAZARDOUS AREA EX



RELIABILITY

SIL3

PERFORMANCE

EN54-10 FM3620



Accessories



Flame Simulator



Air Shield



Weather Protector



USB RS485
Harness Kit



Duct Mount



Tilt Mount



U-Bolt / Pole Mount

20/20 Mini Series

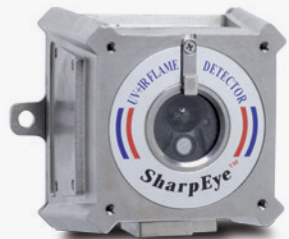
Compact, Light Weight, High Performance at Low Cost

- Long distance Flame Detection: up to 140ft / 43m
- Highest immunity to false alarms
- Output options:
 - Alarm and Fault relay outputs (4 wire)
 - Stepped mA output (3 wire source)
- High-Speed Response
- Large Field of View (100° horizontal / 90° vertical)
- Standard 4-Wire Connection
- 4-20mA Sink or Source (3-4 wires) configuration
- RS-485 Modbus Compatible



20/20MI

High performance featuring lower cost, lower power and more compact design



20/20ML

Compact, lightweight and rugged UV/IR detector providing accurate detection of hydrocarbon-based fuel and gas fires, hydrogen and hydroxyl fires



20/20MPI

The 20/20MPI is a compact, lightweight, high performance IR3 detector, based on industrially proven IR3 technology. Provides detection up to 140ft (43m)



Key Applications

- Gas station
- Chemical factory
- Aircraft Hangars
- Waste Handling
- Marine Vessels Engine Rooms
- Unmanned Gas Stations
- Chemical industry
- Burners
- Office Areas and Atrium Areas
- Boilers and heaters
- Automotive parts manufacturing
- Storage areas
- Nuclear power plants
- Power generation
- Car parking towers and garages
- Generators
- Recreational and sports arenas (facilities)

Accessories



Flame Simulator



Air Shield



Protective Cover included with each new detector



Tilt Mount included with each new detector



Tilt Mount



Rain Cover