

### VOLUMETRIC FLAME DETECTION – 40/40D – PREMIUM SERIES - ULTRA FAST

**40/40D-I MultiSpectry**



**40/40D-L4B UV-IR**



**40/40D-LB UV/IR**



**40/40D-M MultiSpectro IR3 + H2**



The next-generation SharpEye 40/40D series features ultra-fast detection, rapid detection of hydrocarbon-based gas and fuel fires en a longer distance of up to 90 m (300 ft) using the pioneering QuadSense: Next generation technology in the optical flame detection industry with best-in-class performance and reliability.

The series is suitable to meet the challenges of any high-risk industrial application with revolutionary UV/IR BIT and intelligent field of view optical integrity for flawless operation, the widest operating temperature range in extreme weather conditions that provide reliable protection for people and high-value properties and thus maintain their safety.

### Advantages and Features

- Multi-Spectrum Quad-Sense™ Flame Detector: Integrates four IR sensors to further enhance the differentiation of flame sources from flameless background radiation.
  - Superior detection At longer distances up to 90 m (300 ft) for hydrocarbon-based gas and fuel fires
  - Ultra-fast detection, high-speed response below 50ms
  - Proven immunity against false alarms
  - Unmatched reliability: 150,000 hours of MTBF
  - Best-in-class temperature range: -60 to +85°C (-76 to +185°F)
  - Improved durability backed by to 5-year warranty
  - Six levels of sensitivity, adapting to any application
  - Intelligent field of view integrity test, enabling flawless operation
  - Built-in innovative IR test: continuously validating optical integrity and electronic circuits
  - Multiple output options for maximum compatibility with standard infrastructures.
  - Plug-and-Play: factory calibrated for immediate use in any fire detection system
  - Universal wiring option for fast ordering
  - Two-mode heated optics for flawless performance in harsh environmental conditions
  - Global and regional certificate for hazardous areas
  - Performance and reliability approved by recognized certification bodies
  - Compatible con SIL3
  - Approvals: ATEX, IECEx, FM/FMC/CSA, TR CU (EAC). MED "Wheelmark" (DNV), EN54-10 (VdS) | FM3260, IEC61508 - SIL3 compatible
  - Spectral Response: UV: 0.185-0.260 μ m; IR: 4.3-4.8 μ m
- Integration of UV and IR optical sensors for hydrocarbon-based gas and fuel fire detection
  - Ultra-fast 20ms detection
  - Proven immunity against false alarms
  - Unmatched reliability: 150,000 hours of MTBF
  - Best-in-class temperature range: -60 to +85°C (-76 to +185°F)
  - Global and regional certificate for hazardous areas
  - Performance and reliability approved by recognized certification bodies
  - Compatible con SIL3
  - Improved durability backed by to 5-year warranty
  - Intelligent field of view integrity test, enabling flawless operation
  - Innovative built-in UV and IR testing: continuously validating optical integrity and electronic circuits
  - Multiple output options for maximum compatibility with standard infrastructures.
  - Plug-and-Play: factory calibrated for immediate use in any fire detection system
  - Universal wiring option for fast ordering
  - Three levels of sensitivity, adapting to any application
  - Two-mode heated optics for flawless performance in harsh environmental conditions
  - Approvals: ATEX, IECEx, FM/FMC/CSA, TR CU (EAC). MED "Wheelmark" (DNV), EN54-10 (VdS) | FM3260, IEC61508 - SIL3 compatible
  - Spectral Response: UV: 0.185-0.260 μ m; IR: 4.3-4.8 μ m
- Integration of UV and IR optical sensors for fire detection from a wide variety of hazardous sources, such as fuel and gas based on hydrocarbons, hydroxyl, hydrogen, metals, inorganic etc.
  - Ultra-fast 20ms detection
  - Proven immunity against false alarms
  - Unmatched reliability: 150,000 hours of MTBF
  - Best-in-class temperature range: -60 to +85°C (-76 to +185°F)
  - Global and regional certificate for hazardous areas
  - Performance and reliability approved by recognized certification bodies
  - Compatible con SIL3
  - Improved durability backed by to 5-year warranty
  - Intelligent field of view integrity test, enabling flawless operation
  - Innovative built-in UV and IR testing: continuously validating optical integrity and electronic circuits
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  - Spectral Response: UV: 0.185-0.260 μ m; IR: 2.5-3.0 μ m
- Multi-Spectrum Quad-Sense™ Flame Detector: Integrates four IR sensors to further enhance the differentiation of flame sources from flameless background radiation.
  - Superior detection at longer distances up to 90 m (300 ft) for hydrocarbon-based gas and fuel fires
  - Ultra-fast detection, high-speed response below 50ms
  - Proven immunity against false alarms
  - Unmatched reliability: 150,000 hours of MTBF
  - Best-in-class temperature range: -60°C to +85°C (-76°F to +185°F)
  - Improved durability backed by to 5-year warranty
  - Six levels of sensitivity, adapting to any application
  - Intelligent field of view integrity test, enabling flawless operation
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