

UniVario FMX5000 IR Ex d

Robust explosion-proof design



The Easy-to-install explosion-proof flame detector with rapid response and minimal false alarms

The UniVario FMX5000 IR Ex d is an intelligent flame detector combining rapid response, minimal false alarms, and long-range performance. Its robust explosion-proof design ensures reliable fire detection in hazardous areas and demanding industrial environments such as refineries, petrochemical plants, or offshore installations. Developed to complete the UniVario product family, this model adds a variant specifically engineered for use in explosion-hazardous areas.

Key advantages:

- **Explosion-proof housing:** engineered for demanding environments such as refineries, power generation facilities, and operations.
- **Extremely rapid response:** detects flames almost instantly to support early fire warning.
- **Fast, long-range detection:** consistent flame detection at distances of up to 60 m with a dependable response time.
- **Minimized false alarms:** advanced optical design and signal processing algorithms ensure reliable detection while filtering out non-critical heat sources.
- **Quick and simple installation:** separate base and detector units allow for fast, straightforward mounting.
- **Advanced optical verification test:** continued reliable operation without a reflector, improved uptime and less faults or call outs

SPECIFICATIONS

- **Operational zones:** Zone 1, Zone 2, Zone 20, Zone 21, Zone 22
- **Compatible flame simulator:** UniVario FLS-1 Ex
- **Temperature range:** -40°C to +80°C
- **Viewing angle:** horizontal and vertical alignment with 90° field of view
- **Range of applications:** oil & gas, petrochemical and chemical plants, refineries, installations, pharmaceutical, commercial sectors, power generation, aerospace and defense, waste management

Trusted above all.

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