

Use Case – Dräger Flame Series

Achieve optimal performance

with a combination of technologies

Experiencing inferior performance or unwanted process shutdowns from your FPSO flame detectors? Then you need a solution that ignores common sources of false alarms, while delivering exceptional coverage and reliability. Ideally, the solution should improve safety, reduce operating costs, and only detect fire.

A trusted solution for your challenges.

YOUR CHALLENGE: REMOVING FALSE ALARMS, AVOIDING PROCESS SHUTDOWNS, AND OPTIMIZING COST.

Flame detection on FPSO's is challenging due to the compact, single level nature of the process plant and the proximity of the relief flare to topside process modules. The most common flame detection problems faced by FPSO owners / operators are:

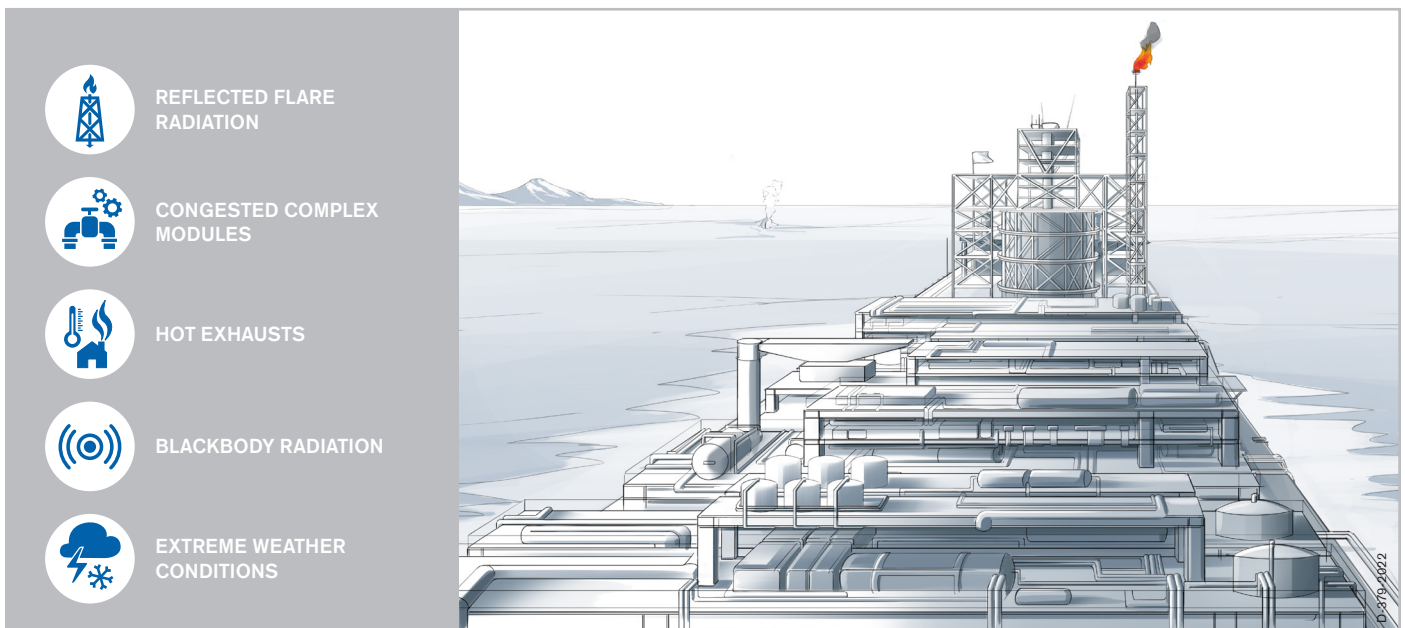
- False alarms and unwanted process shutdowns due to reflected flare radiation, hot CO₂ exhaust emissions, sunlight, and radiant heat sources
- Flame detector blinding due to environmental and process conditions, such as sunlight and blackbody radiation
- Special fire hazards such as methanol
- High CAPEX/OPEX due to the quantity, or incorrect type of detectors

OUR SOLUTION: INTELLIGENT VIDEO FLAME DETECTION AND TRIPLE IR – THE BEST OF BOTH WORLDS.

The use of both the Dräger Flame 5000 and Dräger Flame 1500 will give you the best of both worlds. Proven in use for over 25 years, the Dräger Flame 5000 reliably detects flames in the most challenging FPSO modules, such as the upper deck of the topside process, the flare base, and any areas subject to hot exhaust emissions, blackbody radiation or sunlight (i.e., power generation and helidecks). Dräger Flame 5000 is false alarm immune to reflected flare radiation, hot exhaust emissions, sunlight, and blackbody radiation.

The Dräger Flame 1500 is the perfect solution for special risk fire zones such as the methanol skid, and general purpose hydrocarbon processing modules.

We designed Dräger Flame 5000 and Dräger Flame 1500 to meet the challenge of reliably detecting flames on an FPSO, whilst delivering the best possible balance between safety and economy.

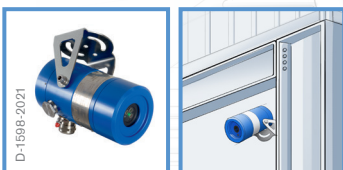


Reliable protection for tough circumstances.



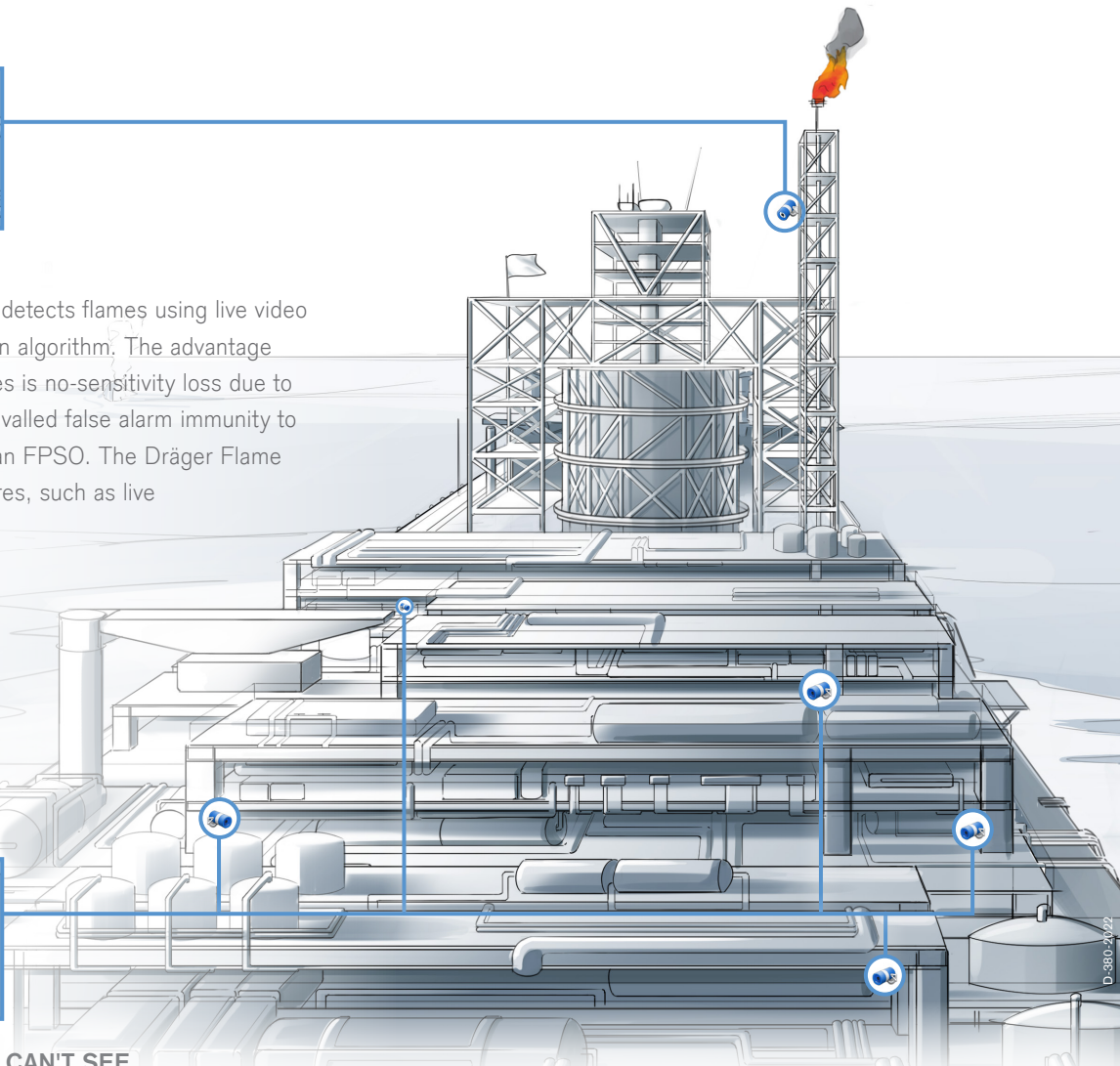
IMMUNE TO FALSE ALARMS.

The Dräger Flame 5000 visually detects flames using live video and an on-board flame recognition algorithm. The advantage of using a camera to detect flames is no-sensitivity loss due to environmental factors and an unrivalled false alarm immunity to the common problems faced on an FPSO. The Dräger Flame 5000 has additional safety features, such as live colour video, and on-board alarm recording. In the event of a fire, these functions help emergency response teams to manage incidents, evacuate personnel, and retrospectively investigate the event.



DETECTS WHAT YOUR EYES CAN'T SEE.

The Dräger Flame 1500 flame detector uses its triple IR sensors to detect hydrocarbon gas and liquid fires at great distances. The advantage of using IR3 technology on an FPSO is that it can detect flames that are not visible to the naked eye, such as methanol.



We are here to help.

Find out more about the benefits of the Dräger Flame Series and how it can help you with an individual solution for your workplace. Please contact your responsible sales representative or get in contact with us at: www.draeger.com