



# Highlights

## Superior False Alarm Immunity

The unique software algorithm of the Dräger Flame 3000 is capable of discriminating between genuine fire conditions and other radiant sources that may cause conventional detectors to become desensitized or produce unwanted alarms. The detector is immune to common sources of unwanted alarms such as welding work, hot CO<sub>2</sub> emissions and flare reflections. This makes it a great partner on your oil rig or industry plant.



## Enlarged Field of View

The Dräger Flame 3000 can detect n-heptane fires of 0.1 m<sup>2</sup> or greater at a distance of 60 m (200 ft) within a 120° horizontal and 80° vertical field of view. The detector's field of view is a rectangular pyramid shape. This gives it one of the greatest standard coverage area and range of any flame detector currently available.

## Flexible operation

The Dräger Flame 3000 operates as a stand-alone unit or can be connected to a control system or a fire panel to provide fault and fire signalling. This is achieved using a 0 to 20 mA signal or relay outputs.

Depending on the environmental conditions you can choose between an aluminium or a stainless steel housing.

## Functional testing

The Dräger FS-5000 flame simulator tests Dräger Flame Detectors at distances up to eight metres (26 ft). With reduced need for scaffold or ladders to access the detector, maintenance costs can be decreased.

## Easy to install and use

The detector is very easy to install using a mounting bracket of stainless steel. The swiveling mounting bracket ensures that the device is optimally aimed towards potential sources of fire. The device status is displayed to nearby workers by tri-coloured LED light.

# Specifications

## Key Facts

Measuring Principle	Visual
Field of view	Horizontal 120°; Vertical 80°
Response time	Typically 4 seconds
Cable entry	M20, M25, 1/2"NPT or 3/4"NPT
Live CCTV	X
Flameproof	✓
Increased Safety	X
SIL	X
4-20 mA	✓
HART®	X
RS-485	X
Relay	✓

## Fuel measuring range

n-Butane	30 m
Methane	30 m
Ethanol	30 m
n-Heptane	60 m
JP4	90 m
Diesel Fuel / JP5 / Kerosene	50 m
Propane	42 m
Crude oil	50 m
Gasoline	57 m
IPA (Isopropyl Alcohol)	45 m
LPG	26 m
Polypropylene Pellets	22 m
Acetone	50 m
Silane	17 m
Hexane	77 m

## Technical Data

Power Supply	18 to 32 V DC (24 V DC nominal)
Temperature (operation)	-60°C - 85°C
Humidity	0 to 95 % r.h., non-condensing
Pressure	915 - 1055
Dimensions (H x W x D)	22x10 cm
Weight	13.23 lb
Housing Material	Aluminium or stainless steel, powder-coated

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IP class

IP66 / NEMA 4X

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## Approvals

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ATEX	✓
IECEX	✓
UL	X
CSA	X
CE marking	✓
GOST (EAC)	✓
Performance approval FM3260	✓
Performance approval (DNV Type Approval)	X
Shipping approval (DNV Type Approval)	✓
FM	✓

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# Accessories



## Dräger FS-5000

- Simulates presence of fire for testing Flame 5000
- Designed for extreme offshore environmental conditions

# Connective Products



## Dräger Flame 1350 (UV/IR)

- Uses UV and IR sensors for reliable detection of hydrocarbon-based fires
- High performance and low false alarm rate



## Dräger REGARD® 3000

- Modular control system for various gas and vapour monitoring
- Multi-coloured status light signals system status
- Allows combination of Input, Relay, and Gateway modules



## Dräger REGARD® 3900 Series

- Standalone control system with up to 16 configurable measuring channels
- Modular setup for plant-specific customization



## Dräger REGARD® 7000

- Highly expandable control and analysis system
- Monitors various gases and vapours
- Suitable for complex gas warning systems

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