

Dräger Flame 5000 Flame Detection

In today's industrial workplaces, flame detection is essential for protecting both people and facilities. The Dräger Flame 5000 is an explosion-proof flame detector based on advanced color imaging technology. Each detector operates as a standalone unit and incorporates an integrated closed circuit television (CCTV) system, digital signal processing, and software algorithms to process live video images and interpret the characteristics of a flame.



Benefits

Simple installation and use

The Flame 5000 is easy to install and comes with its own stainless steel mounting bracket, which you can rotate to ensure optimum positioning of the detector in relation to the potential fire source.

Flexible use and recording capabilities

The detector can be operated as a standalone unit to provide live video images, and can also be integrated with a control system or fire panel to provide fault and fire signaling. This is achieved using a 0 to 20 mA or relay output. A built-in memory card allows the detector to record essential data before and after every alarm.

Advanced optical verification improves safety and response time

An optical verification feature checks the window for contamination and ensures that the field of view is not compromised by an obstruction placed immediately in front of the detector. The surveillance ability of the detector eliminates the need to dispatch operators to investigate alarms. This reduces the risk of injury and also improves response time.

Easily visible status LED

A tri-color LED, which is clearly visible at the front of the detector, provides a simple status indication to personnel in close proximity to the detector. Green indicates normal operation, yellow indicates a fault, and red indicates the presence of radiation.

Industry's widest field of view

The Dräger Flame 5000 can detect fires of 1 square foot or greater at 144 feet (0.1 m² or greater, at 44 m) within a 90° horizontal field of view. The detector's field of view is in the shape of a rectangular pyramid and represents a radial projection of the sensing element—giving it the greatest coverage area of any flame detector currently available.

Virtually immune to false alarms

The Dräger Flame 5000's advanced image processing algorithms are so discriminating that false alarms are practically non-existent.

Worldwide approvals

Available in aluminum or stainless steel, the Dräger Flame 5000 has the following approvals for worldwide use: ATEX, IECEx, FM and CFM.

System Components



D-27777-2009

Dräger REGARD 3900

The Dräger REGARD 3900 is a standalone control system for the detection of toxic gases, oxygen levels, and Ex hazards. The control system is fully configurable between 1 and 16 channels, depending upon the type and quantity of input/output boards installed.



ST-335-2004

Dräger REGARD-1

The Dräger REGARD-1 is a standalone single-channel control system for the detection of toxic and Ex hazards and oxygen levels. The control system is fully configurable for a single input from either a 4 to 20 mA transmitter or a Dräger Polytron® SE Ex measuring head.



D-8806-2016

Dräger REGARD 7000

When you need to monitor and analyze a number of various gases and vapors, the Dräger REGARD 7000 is a modular and highly expandable analysis tool. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD 7000 is exceptionally reliable and efficient. An additional benefit is the system's backward compatibility with legacy REGARD controllers.

Accessories



Dräger FS-5000

The Dräger FS-5000 is designed to simulate the presence of fire or flame to test the correct operation of the Dräger Flame 5000.

Technical Data

Dräger Flame 5000

Type		Color imaging based visual flame detector
Field of View		Horizontal 90°
Sensitivity		0.1 m ² gasoline fire at 44 m, (1 sq. ft fire at 144 ft)
Response Time		4 seconds, typical; configurable up to 30 seconds
Signal Output	Analog or 2 Relays for Fault & Alarm Standard RS 485	0 to 20 mA Ratings 125 VAC, 0.5 A; 30 VDC, 2A (optional)
Supply Voltage		18 to 30 VDC, current consumption 6 watts (typical)
Ambient Conditions	Temperature Pressure Humidity	-60 °C to +85 °C, -76 °F to +185 °F 915 to 1,055 hPa, 27.9 to 31.2 inch of Hg 0 to 99 %RH, non-condensing
Enclosure		IP 66, NEMA 4X
Cable Entry		M20, M25 or 3/4" NPT
Dimensions (L x D, approx)		200 x 100 mm, 7.9 x 3.9 inches
Weight (approx)		2.5 kg, 5.5 lbs (2.8 kg, 6.2 lbs stainless steel)
Approvals	ATEX IECEX FM/CFM	II 2 G EEx d IIC T4 Ex d IIC T4 Class I, Division 1 Groups B, C and D Class I, Zone 1, AEx d IIC; T5

Ordering Information

Dräger Flame 5000	Order No
Dräger FS-5000	420 93 07
Dräger Flame 5000, 3/4 NPT, Relay, NTSC video mode, w. Hart, Aluminium	420 93 10
Dräger Flame 5000, 3/4 NPT, 4-20mA, NTSC video mode, w. Hart, Aluminium	420 93 50
Dräger Flame 5000, 3/4 NPT, Relay, NTSC video mode, w. Hart, Stainless Steel	420 93 22
Dräger Flame 5000, 3/4 NPT, 4-20mA, NTSC video mode, w. Hart, Stainless Steel	420 93 56

Polytron and REGARD are trademarks of Dräger.

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

Customer Service:
USA
+1 800-4DRAGER
(+1 800-437-2437)

CANADA
+1 877-DRAGER1
(+1 877-372-4371)

Technical Service:
USA
+1 800-4DRAGER
(+1 800-437-2437)

Locate your Regional
Sales Representative at:
www.draeger.com/contact

