

Dräger Flame 1300

The Dräger Flame 1300 is an IR flame detector, designed for the detection of organic based fires such as hydrocarbon fuels and vapours. The detector provides flexibility with its numerous output modes, and advanced design features ensure reliability in the detection of fires whilst at the same time providing excellent immunity to potential false alarm sources.



Simple installation

Installation is simple! The detector is easily installed with a stainless steel mounting bracket; which can be rotated to ensure optimum positioning of the detector in relation to the potential fire source. Angular markings allow the positioning angles of the detector to be recorded for future reference.

Detector flexibility

As well as a 4 to 20 mA output and 3 relays, an optional RS 485 output is also available, which can be multi-dropped to a central location. This provides a number of options for detector monitoring and the triggering of the necessary control action upon the detection of a fire.

Automatic and manual optics checks

Automatic checks of the detector electronics and optics ensure no fault goes undetected. Additionally the test can be triggered manually at anytime.

Isolated 4 to 20 mA as standard

Complete flexibility enables the detector to be operated from a separate power supply (as a 4 wire device) or as a 3 wire device where there is no requirement for an isolated output.

Easily visible status LED

A tri-coloured LED which is 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.

Worldwide Approvals

The Dräger Flame 1300 can be used worldwide with the following approvals: ATEX, IECEx, FM and CSA.



Dräger Flame 1300:
Explosion proof IR flame detector for hydrocarbon based fires

TECHNICAL DATA

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|-----------------------|---|---|
| Type | Explosion proof IR flame detector for hydrocarbon based fires | |
| Spectral response | 4.2 to 4.7 micron | |
| Field of view | Horizontal 90°, vertical 90° | |
| Sensitivity | 0.1 m ² gasoline fire at 18 metres, 1 sq. foot fire at 60 feet | |
| Response time t90 | 3.5 seconds, typical, configurable up to 30 seconds | |
| Signal output | Fault | 0 mA |
| | Optics/electronics check failure | 2 mA |
| | Normal operation | 4 mA |
| | Fire pre-warning | 16 mA |
| | Fire | 20 mA (factory configurable for latching/non-latching alarm) |
| | 3 relays for fault, alarm and accessory, ratings 125 VAC, 0.5 A; 30 VDC, 2 A optional RS 485 | |
| Supply voltage | 18 to 32 VDC, current consumption 160 mA quiescent state at 24 VDC | |
| Ambient conditions | Temperature | - 40 to + 70 °C, - 40 to + 158 °F |
| | Pressure | 915 to 1055 hPa, 27.9 to 31.2 inch of Hg |
| | Humidity | 0 to 99 %RH, non condensing |
| Enclosure | IP 66 / NEMA 4X | |
| Cable entry | M20, M25, 1/2" NPT or 3/4" NPT | |
| Size (L x D, approx.) | 275 mm x 155 mm, 10.8" x 6.1" | |
| Weight (approx.) | 3.5 kg, 7.7 lbs | |
| Approvals | ATEX | II 2G EEx d IIC T6/T5; - 50 ≤ Tamb ≤ + 60 / + 70 °C |
| | IECEX | Ex d IIC T6/T5; - 50 ≤ Tamb ≤ + 60 / + 70 °C |
| | FM/CSA | Class I, Groups A, B, C, D Class I, Zone 1, Groups IIA, IIB & IIC Ex d II C; T6/T5; - 40 ≤ Tamb ≤ + 60 / + 70°C |

ORDER INFORMATION

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| Dräger Flame 1300, Al housing, M20 entries | 23 50 422 |
| Dräger Flame 1300, Al housing, M25 entries | 23 50 429 |
| Dräger Flame 1300, Al housing, 1/2" NPT entries | 23 50 435 |
| Dräger Flame 1300, Al housing, 3/4" NPT entries | 23 50 441 |
| Dräger Flame 1300, SS housing, M20 entries | 23 50 425 |
| Dräger Flame 1300, SS housing, M25 entries | 23 50 432 |
| Dräger Flame 1300, SS housing, 1/2" NPT entries | 23 50 438 |
| Dräger Flame 1300, SS housing, 3/4" NPT entries | 23 50 444 |



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.