AUTROFLAME IR FLAME DETECTOR
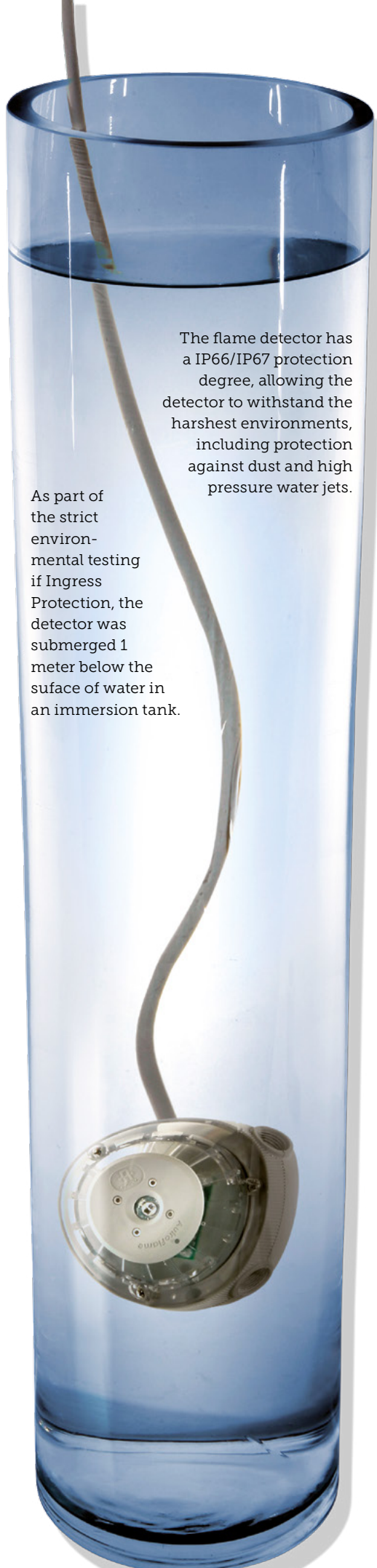
Fast detection of critical fires

AutroFlame IR flame detector BG-201 is a point flame detector for detection of fires involving combustion of carbonaceous materials. It has a high IP rating making it suitable for the harshest environments.

Features

v High degree of immunity to false alarm sources

v Different sensitivity settings possible

v Short circuit isolator in each detector

v Comprises a built-in alarm indicator (LED)

v Automatic addressing

v Solar resistant

v Not blinded by oil film on window

v EN 54-10, EN 54-17 approved

v Designed to meet the requirements of major classification societies

v Mode selection; addressable or conventional

Ideal for use in:

v Façades

v Atriums

v Hangars

v Theaters

v Churches

v Kitchens

v Workshops

v Warehouses

v Turbine/Engine enclosures/rooms

v Waste storage

v Outdoor applications in general

ONSHORE GLOBAL

The flame detector has a IP66/IP67 protection degree, allowing the detector to withstand the harshest environments, including protection against dust and high pressure water jets.

As part of the strict environmental testing if Ingress Protection, the detector was submerged 1 meter below the suface of water in an immersion tank.

ON THE SAFER SIDE

The dual IR flame detector is used in various applications in which risk to personnel is high and where fire might result in a large loss of equipment. Beyond critical life-safety concerns, the advanced signal processing and DYFI+ intelligence ensure that the detector has a high immunity to any nuisance alarm source and makes this detector the obvious choice for demanding applications

Fast detection
A dual IR flame detector compares the threshold signal in two infrared ranges - the monitored area and a reference frequency. If the surroundings in the monitored area deviates from the monitored area, the detector will give warning. At a 25 meter distance a fire will be detected within 8 – 10 seconds (EN 54-10 test fire). If the detector is mounted closer to the object of interest, the fire will be reported within 1—2 seconds.

The detector can be used in two different modes, depending on the type of system:

v Interactive adressable for connection to AutroSafe/Autroprime detection loops
v Conventional mode for connection to conventional panels, or as a conventional interface to other addressable systems

In interactive mode the detector can be configured to one of three different Performance Classes (see table), with sensitivity settings covering different environments. In conventional mode only class 1 and 3 are available.

By choosing a sensitivity setting that suits the environment, it is possible to achieve optimal detection, whilst virtually eliminating false alarms.

Immunity
Advanced digital signal processing algorithms ensures fast detection of real fire scenarios combined with high immunity against nuisance alarms. The detector is immune to common false alarm sources like:

v Vibrating hot bodies (engines, exhaust-pipes, pumps etc.)
v Sunlight; both directly and reflections from the sea, windows or mirrors etc
v Arc welding

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