**1. General Description**

The MicroFireX MFX3 is a compact, palm-sized, high-performance, Pyrotechnic Fire Fighting Device (Automatic fire extinguishing system) with a durable metal casing designed for both professional and home users.

The device operates without requiring any electrical connection and activates when the ambient temperature reaches 170°C or comes into contact with open flame. The nano-sized aerosol particles released from the unit quickly fill the protected area to suppress the fire within seconds.

The device has been tested in accordance with the EU Directive 2013/29/EU on Pyrotechnic Articles , and it has been certified accordingly. Therefore, it is suitable for commercial use and distribution within European Union countries.

**2. Product Specifications**

|  |  |
| --- | --- |
| **Feature** | **Value** |
| **Product Name-Model** | MicroFireX MFX3 |
| **Protected Volume** | 0.3 m³ (300 liters) |
| **Design Density** | 60g/m3 |
| **Discharge Time** | ≤ 5 seconds |
| **Extinguishing Agent Amount (NEC)** | 20 grams - KNO3,, Sr(NO3)2 |
| **Dimensions** | 66 mm × 27 mm × 20 mm |
| **Net Weight** | 50 grams |
| **Storage Temperature** | -30°C ~ +70°C |
| **Activation Temperature** | 170°C |
| **Case temperature when activation** | 200°C |
| **Fire Classification** | A, B, C, F |
| **Shelf Life / Usage Period** | 6 years |
| **Activation Type** | Automatic triggering with a linear heat sensor |
| **Installation** | Easy installation using strong adhesive tape |

**3. Application Areas**

MicroFireX is ideally suited for use in small enclosed spaces such as:

* Electrical meter boxes
* Small electrical cabinets
* Switchgear units
* Battery compartments (EV charging stations, UPS systems, Li-Ion battery areas)
* Charging stations
* Cable galleries
* Electrical panels of small marine vessels, battery cabinets and battery enclosures.

*💡 Note: A single unit protects up to 0.3 m³ (300 liters) of space, which corresponds approximately to a cabinet size of 60 cm x 60 cm x 85 cm .*

**4. Product Image**

The image below shows the MicroFireX automatic fire extinguishing device:

* Red cable on the device : This is the linear heat sensor (LHS) that detects heat and activates the unit. LHS lenght is 30cm.
* Holes : These are the nozzles through which the extinguishing agent is discharged.

**5. Installation Instructions**

The unit should be mounted in areas where fire risk is highest. Consult an expert if necessary to identify these zones.

* After identifying the fire risk area, Calculate the volume of the area to be protected (width x height x depth in meters).
* You can use one MFX3 for volumes up to 0.3 m3. Use two MFX3s for volumes up to 0.6 m3.
* Remove the MFX3 from its packaging.
* Clean the mounting surface from oil and dirt so that the MFX3can adhere properly.
* Remove the protective layer of double-sided adhesive tape and install the MFX3with the nozzles (holes) facing downwards.
* Ensure there is at least 20 cm (200 mm) of free space in front of the nozzles.
* Note that one MFX3can be effective in a volume of 300 liters. If the volume is larger, install a second MFX3.

**6. Usage and Operation Warnings**

FOR USE BY PERSONS AGED 18 AND OVER ONLY

There must be no obstacles within 200 mm directly in front of the device's nozzles.

Do not install the unit near air outlets (fan or vent areas) of the protected enclosure.

**7. Why MicroFireX?**

The name MicroFireX emphasizes that the product belongs to the S-type aerosol class and works with finer particle sizes than standard aerosols.

This allows for:

* Faster dispersion,
* More effective fire suppression,
* Safe operation without damaging sensitive electronic equipment. Dust residue after aerosol spray is minimal and does not damage electronic devices.

Despite its palm-sized size, MicroFireX offers powerful protection against major fire risks. Its small size makes it easy to integrate into any space. Its high-quality metal casing ensures long-lasting performance even under harsh conditions. It stands strong in any environment, from industrial areas to offices.

MicroFireX doesn't require complicated wiring. Its plug-and-play design makes it practical for technicians and effortless for users.

**8. Labelling**

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AI-generated content may be incorrect.A red and white business card

AI-generated content may be incorrect.**

**9. Compliance Information**

MicroFireX has been tested under the Directive 2013/29/EU of the European Parliament and of the Council , and its compliance has been confirmed with a CE certificate. Therefore, it is suitable for use worldwide, particularly within EU member states.

Certificate Number : ……. Notified Body : 2806

**10. Maintenance and Troubleshoting**

MicroFirex is maintenance-free. But, It should be checked once a month whether the outer body, thermal cable are damaged. MicroFireX that have worked due to a fire or that have been damaged for any reason are replaced with new devices, doesn’t be repaired.

**11. MANUFACTURER’S WARRANT**

Device warranty life is 2 year after assemblying..

Suggested operating and the storage life by manufacturer of the device is 6 years.

After finding any manufacturer’s failure during warranty life the manufacturer is engaged to replace it free of charge.

The inside of the nozzle holes are lined with foil. This nozzle allows aerosol to escape during operation.

Products with punctured foil or tampered with screws on the device are not covered by the warranty.

**12. Category and registration number**

2806-P1-XXXXXX

**13. Manufacturer Information**

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QC: OK

Log No :

Production Date :

Expiration Date :