

DRMFS - DIN RAIL MOUNTED FIRE SUPPRESSOR

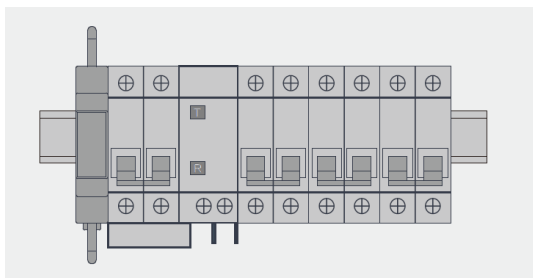
Description:

S-type hot aerosol gas generating agent is a next-generation formula, it delivers high fire suppressor efficiency, is environmentally friendly, non-toxic, non-corrosive, and does not deplete the atmospheric ozone layer.

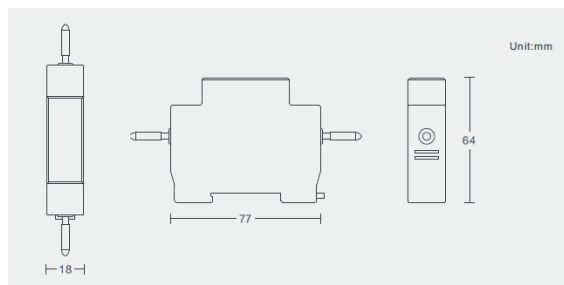


OTHER ADDITIONAL INFORMATION

Installation Method:



Product Size:



Code	Dosage (g)	Protected Space (m)	Spraying Time (s)	Working Environment	Medication Expiry Date	Installation Method	Product Size (mm)
DRMFS	20	≤0.31m	≤6	-50~+90°C <95%RH	10 years	DIN Rail	77 x 18 x 64

When the fire suppressor device is in normal operating condition, the associated activation system should be inspected regularly. The fire suppressor unit itself requires no maintenance during its service life.

Unauthorised disassembly by non-professionals is strictly prohibited.

After discharge, do not touch the housing until it has fully cooled, as it may cause burns.

Working Principle:

S-type pyrotechnic aerosol generating agent is a solid chemical mixture composed of an oxidizer, a reducing agent, a burn rate controller, and a binder. When activated by an electrical or thermal trigger, it undergoes a self-sustaining redox reaction, producing a large volume of fire suppressor aerosol.

The metal salt particles within the aerosol absorb significant heat at elevated temperatures, lowering the flame temperature and suppressing the combustion process. Simultaneously, vaporised metal ions interact with reactive species in the flame, repeatedly neutralising active radicals and reducing the chain reactions that sustain combustion, thereby delivering a strong chemical inhibition effect.

In addition, gases such as nitrogen (N₂) and carbon dioxide (CO₂) released by the fire suppressor aerosol reduce the oxygen concentration in the combustion zone. Through the combined action of thermal absorption, chemical inhibition, and oxygen dilution, the system effectively suppresses fire.

The aerosol, consisting of fine solid particles suspended in the fire suppressor gas, remains airborne for an extended period and disperses throughout the protected space. This enables efficient total flooding and comprehensive fire suppression coverage.

Installation and Operational Safety:

This technical specification must be carefully reviewed prior to installation and operation. Appropriate safety measures should be implemented, and all procedures must be carried out in accordance with standard practices.

During installation, the nozzle of the fire suppressor device must not be directed toward personnel. It is also essential to ensure that wiring does not short circuit during installation, maintenance, or inspection, as this may result in equipment malfunction or unintended activation.

Prior to discharge, the fire suppressor device must be verified to ensure the nozzle is properly sealed and the protective cap is securely in place to maintain reliable performance.

Fire suppressor devices should not be installed in environments exposed to rain, water ingress, high pH conditions, or corrosive elements.

Upon expiry of the service life, the user should contact the supplier for further guidance.

After activation of the fire suppressor device, the area should be cleaned within 24 hours, and the supplier should be notified.

Unauthorised disassembly by non-professionals is strictly prohibited.

After discharge, do not touch the housing until it has fully cooled, as it may cause burns.