LIVE ELECTRICAL DISTRIBUTION UK LTD

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Ensure that these instructions are made available to the end user for future reference.

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© Product installation and operation guide

HEAT AEROSOL FIRE EXTINGUISHING DEVICE

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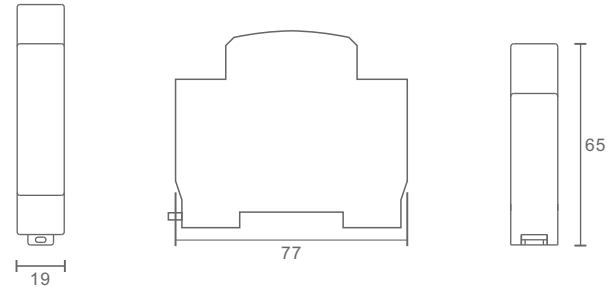
Fire Extinguishing Mechanism

The thermosolv aerosol generating agent is a solid chemical mixture composed of an oxidant, a reducing agent, a combustion rate controller, and a binder. When activated , it undergoes a redox reaction on its own to form a large quantity of aggregated fire-extinguishing aerosol. The metal salt particles in the aerosol absorb a substantial amount of heat at high temperatures, thereby lowering the flame temperature and inhibiting the combustion reaction. At the same time, under thermal action, the vaporized metal ions and cations in the fire-extinguishing aerosol gas can undergo affinity reactions with the active groups involved in combustion, repeatedly consuming a large number of these active groups, reducing combustion free radicals, and efficiently absorbing the combustion free radicals in the flame to achieve a chemical inhibition effect. The N_2 and CO_2 in the fire-extinguishing aerosol can reduce the oxygen concentration in the combustion process, and fire extinguishing is achieved through the combined action of multiple mechanisms (both physical and chemical). Additionally, the aerosol, formed by solid particles encapsulated in the fire-extinguishing gas, can remain suspended for an extended period and disperse to every corner, enabling efficient fire extinguishing via a full-submersion approach.

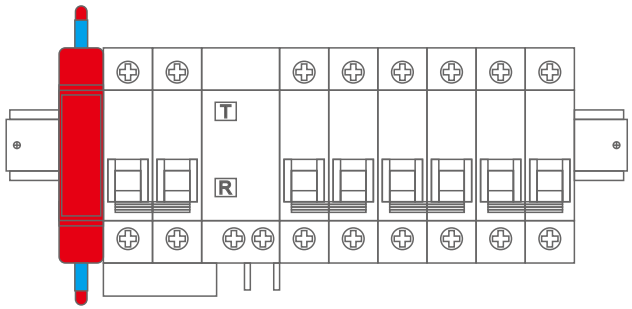
Technical Data

Part No.	LFE10G
Expiration Date	10 Years
Extinguishing Density	100g/m^3
Spray Release Time	⩽6S
Applicable environmenta	-50~+90℃ ＜95%RH
Oxidizer Content / Strontium Nitrate Content	50%~58%
Protected Space	⩽0.4m^3
Installation	35mm Din Rail
Weight of the prepartion	10g
Activation Sensitivity	170℃
Length of blue fly leads	10cm
Surface Temperature of Casing	⩽200℃
Thermal Clearance	0.3m⩽75℃ 0.12m⩽200℃ 0.05m⩽400℃
Compliance Standard	BSEN15276-1:2019 BSEN15276-2:2019

Dimensions



Installation method



Notes

- When the fire extinguishing device is in normal working condition, the supporting activation device needs to be inspected; the fire extinguishing device itself requires no maintenance within its validity period.
- During installation and use, this technical specification must be read carefully. Appropriate protective measures should be prepared and operations should be carried out in a standardized manner.
- During installation, the nozzle of the fire extinguishing device must not be directed at people.
- During installation, maintenance and overhaul, ensure that the circuit does not short-circuit. A short circuit may cause device failure or accidental activation.
- Before the fire extinguishing device is discharged, ensure the nozzle is in a closed state and the nozzle protective plug is not detached to guarantee reliable performance.
- Do not disassemble this device without permission if you are not a professional.
- After discharge, do not touch the housing until it cools down to avoid burns.