



# FD-CH2

## Anti-condensation heater for FD800 series

### Introduction

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The FD8xx Series Anti-Condensation Heater has been designed to be used in environmental conditions where condensation affects the operation of optical beam smoke detectors.

Condensation occurs when the surrounding air is at a higher temperature than the surface that it comes in contact with. As air contains water, in the form of vapour, this will deposit on the cooler surface thus forming condensation.

The design of the Anti-Condensation Heater utilizes forced air, which results in a circulating current of warm air maintaining the detector lens at an incrementally higher temperature than the surrounding air. The heater will reduce the likelihood of condensation forming on the lens which, in turn, reduces the potential for false alarms.



### Details

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- Bespoke bracket to ensure optimum performance of heater
- Designed to prevent the build-up of condensation
- For use in temperature controlled storage areas and cold environments
- Reflective Prism Heater (FD-CH4) also available

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### Technical specifications

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#### Electrical

Power consumption	20 W (at 24 V)
Operating voltage	24 VAC/VDC
Maximum in-rush current	3 A
Steady-state current at 24V	0.8 A (Typical)
Recommended fuse rating	T2A
Connections	4 leads (2 for heater & 2 for fan)

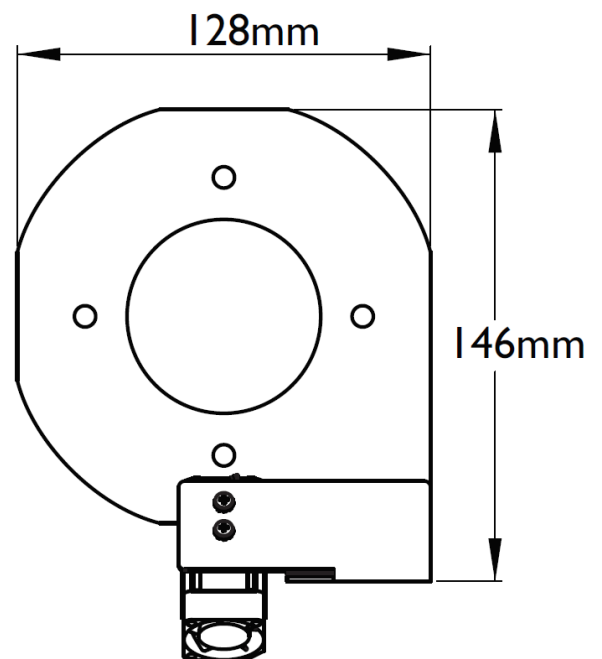
#### General

Average temperature increase of lens above ambient	10°C
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#### Environmental

Operating temperature	-10 to +45°C
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