

TEMPERATURE DETECTOR DIL SWITCH ADDRESSED



Part Number 55000-465IMC
Standard Temperature Detector



Part Number 55000-475IMC
High Temperature Detector

DEVICE RESPONSE

Type: Flaming with high heat output
Response: Moderate/good

Type: Flaming - clean burning
Response: Moderate/good

Type: Flaming combustion
Response: Poor

Type: Overheating/thermal combustion
Response: Very poor

Type: Smouldering/glowing combustion
Response: Very poor

Standard Temperature Detector, DIL style, 55000-465IMC
High Temperature Detector, DIL style, 55000-475IMC



010u/04



010u/05



0832

Our DIL Switch Addressed (DSA) Context Plus temperature detectors have a low air flow resistance case made of self-extinguishing white polycarbonate. The devices monitor temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature.

The response to heat increases of the standard temperature detector enables the detector to be utilised as an EN54-5:2000 A2S heat detector, which is equivalent to an EN54-5:1984 Grade 2 detector. A high temperature detector, which has similar characteristics at 25°C but reaches a 55 count at 90°C, is available for use in normal ambient temperatures of up to 55°C. This detector meets the requirements for a CS detector in EN54-5:2000.

The address of DSA Context Plus temperature detectors is set using the DIL switch located on the underside of the device. All segments are set to 0 (ON) or 1 (OFF), using a small screwdriver or similar tool. The address should be written on the label and the rear of the detector sealed.

Technical Data

Standard temperature detector
Detector Part No 55000-465IMC
Base Part No 45681-200

Specifications are typical and given at 23°C and 50% relative humidity unless stated.

Communication protocol: Apollo XP95 pulse 5-9V

Address range: 1 to 126

Detector Type: Fixed Temperature Heat

Detector Principle: Temperature sensitive resistance

Sensor: Single NTC Thermistor

Sampling Frequency: Continuous

Supply Wiring: Two wire supply, polarity insensitive

Terminal Functions:

Supply positive and negative in and out connections (polarity sensitive); remote indicator connection to LED driver base

Supply Voltage: 17 to 28 Volts dc

Quiescent Current: 300µA @ 24V

Power-up Surge Current: 1mA

Duration of Power-up Surge Current: 1 second

Maximum Power-up Time: 4 secs

Storage Temp: -30°C to +80°C

Min Continuous Operating Temperature: -0°C

Application Temperature: Class EN54-5:2001 A2S typical 25°C, max 50°C

Static Response Temperature °C: Min 54 Type 58 Max 62

Alarm Level Analogue Value: 55

Alarm Indicator: Red Light Emitting Diode (LED)

Alarm LED Current: 2mA

Type Code: (210 43) 110 00

Sensitivity: 25°C to 90°C: 1°C/Count; -20°C returns 8 counts

Humidity: (No condensation or icing) 0% to 95% relative humidity

Wind Speed: Unaffected

Atmospheric Pressure: Unaffected

Vibration, Impact & Shock: To EN54-5:2000 marked.

IP Rating: 53

Dimensions: (diameter x height)
Detector: 100mm x 39mm
Detector in Base: 100mm x 47mm

Weights: Detector: 100g; Detector in Base: 157g

Materials: Detector Housing: White polycarbonate V-0 rated to UL 94; Terminals: Stainless Steel

High Temperature Detector
Detector Part No: 55000-475IMC
Base Part No 45681-200

Specifications are the same as those for the standard temperature detector described above, apart from the following points:

Detector Principle: Temperature sensitive resistance. Linear approximation designed to give 26 counts at 25°C and 55 counts at 90°C

Type Code: (210 43) 110 01

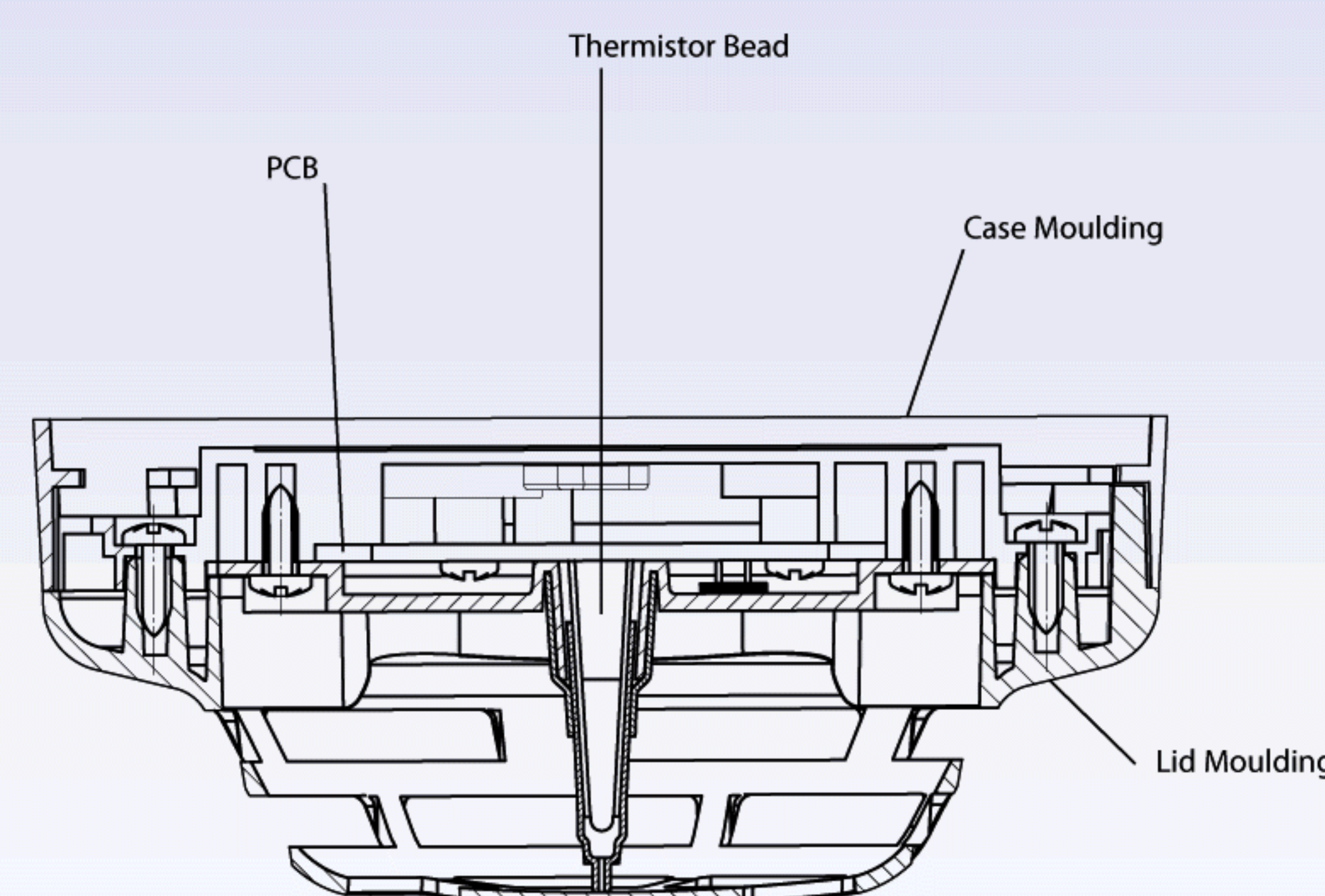
Application Temperature:

Class EN54-5:2001 CS typical 55°C, max 80°C

Static Response Temperature °C: Min 84 Type 90 Max 96

Sensitivity: 25°C to 90°C:

2-17°C/Count -20°C returns 20 counts



Sectional view - Temperature (Heat) Detector