# Cold Aisle Containment (CAC)
## Fixed Roof Panel

Roof panels to enclose the top of the cold aisle and create a sealed environment for efficient airflow management. These panels help prevent hot air recirculation by containing the cold air within the aisle, ensuring that it is directed towards the IT equipment for optimal cooling. Cold aisle containment roof panels are typically made of lightweight and durable materials and they are designed to fit securely on top of the cold aisle structure.

By installing roof panels in the cold aisle containment system, data center operators can improve cooling efficiency, reduce energy consumption, and maintain a consistent temperature throughout the data center.



FEATURES

- Clear lightweight panels allow for light pass through.
- Framed panels can be lifted off to access above contained area for maintenance.
- Framed panels can be pre-installed for fast installation.
- Flexible, modular design and customizable to different aisle lengths and widths.

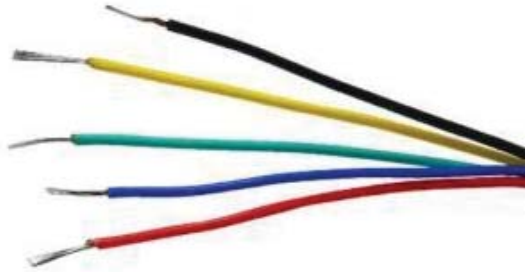
### Product Specifications

| Parameter | Specification |
|---|---|
| Operating Power | 12V DC, customizable to DC24V. |
| Operating Temperature | -10°C to 50°C |
| Output Form | Relay (Load Current 30mA), Relay Output NC/NO selectable |
| Static Power Consumption | ≤0.3W, Alarm Power Consumption: ≤0.5W |
| Operating Humidity | 20% RH to 100% RH, False Alarm Rate < 100ppm |
| High/Low-Level Output | VL is 0V (+0.5V) |
| Load Capacity | VH is 5V or 12V (±0.5V) |
| Solid State Relay | 500mA (can be customized for higher current, up to 1A). |
| High-Level M is 3k. Note | When the high-level output is 12V, the supply voltage should be higher than 16V |
| Detection Cable | Point-type detection points on the sensing cable, spaced around 10cm apart |
| Configuration | Comes with a standard 1.5-meter detection cable, customizable for different cable lengths. |

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### Wiring Instructions



| Wire Colour | Wiring Explanation |
|---|---|
| Red | Operating Power +12VDC Positive |
| Black | Operating Power -12VDC Negative |
| Yellow | Normally Closed Contact Input, No Polarity |
| Blue | Open Contact Output, No Polarity |
| Green | Signal Common Terminal, No Polarity |

### Product Dimensions




| Parameter | Specifications |
|---|---|
| Operating Power | 12V or 24V DC |
| Operating Power | Static Power Consumption < 0.3W, Alarm Function 0.5W |
| Consumption | Relay (Load 30mA), Normally |
| Alarm Output | Open/Normally Closed |
| Load Capacity | VH is 5V or 12V (±0.5V) |
| Solid State Relay | ≤500mA |
| Operating Temperature | 1°C~50°C |

### Ordering Information

| Part Number | Dimension (mm) | Description |
|---|---|---|
| LTR-FRP-01 | 600 (D) * 1337 (W) | Fixed roof clear polycarbonate panel with single window opening |
| LTR-FRP-02 | 600 (D) * 1328 (W) | Fixed roof clear polycarbonatepanel with dual windows opening |
| LTR-FRP-03 | 600 (D) * 1328 (W) | Fixed roof blank panel |

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