

TOUCH-SAFE PTC FAN HEATER

CS 028 / CSL 028 | 150 W to 400 W

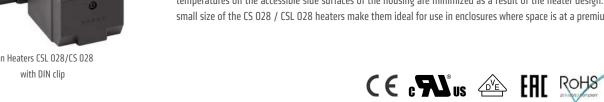


Fan Heaters CSL 028/CS 028



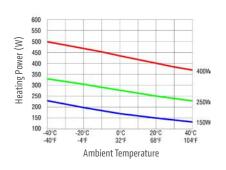
- > DIN rail or screw mount available
- > Heating power adjusts to ambient temperature

The CS 028 / CSL 028 fan heaters prevent formation of condensation and provide an evenly distributed interior air temperature in enclosures. The heaters are connected using the internal terminal connectors. The surface temperatures on the accessible side surfaces of the housing are minimized as a result of the heater design. The small size of the CS 028 / CSL 028 heaters make them ideal for use in enclosures where space is at a premium.



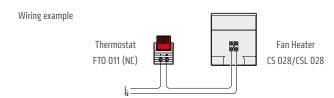


Fan Heaters CSL 028/CS 028 with screw mount tabs



TECHNICAL DATA

| Heating element | PTC resistor – temperature limiting |
|--|---|
| Axial fan, ball bearing | service life 40,000 h at 104 °F (40 °C) |
| Air flow, free blowing | CS 028: 8 cfm (13.8 m³/h) CSL 028: 32 cfm (54 m³/h) @ AC 120 V; 26 cfm (45 m³/h) @ AC 230 V |
| Connection | 2-pole terminal AWG 14 max. (2.5 $\mbox{mm}^2)$ with strain relief, torque 0.8 Nm max. |
| Housing | plastic, UL 94V-0, black |
| Mounting | screw mount (Ø 2.11"/5.3 mm) or clip for 35 mm DIN rail, EN 60715 |
| | |
| Mounting position | vertical |
| Mounting position Dimensions | vertical see drawings |
| 51 | 1-1-1-1-1 |
| Dimensions | see drawings |
| Dimensions Operating / Storage temperature | see drawings -49 to +158 °F (-45 to +70 °C) |



FAN HEATER CS 028

| Part No. DIN mount | Part No. screw mount | Operating voltage | Heating capacity ¹ | Max. current (inrush) | Recommended pre-fuse T (time-delay) | Weight (approx.) | Approva | ıls | |
|-----------------------|-------------------------|--------------------|----------------------------------|--------------------------|--|------------------|---------------------|-----|-----|
| 02800.9-00 | 02800.9-01 | AC 120 V, 50/60 Hz | 150 W | 6.0 A | 10.0 A | 10.6 oz. (300 g) | UL File No. E234324 | - | EAC |
| 02800.0-00 | 02800.0-01 | AC 230 V, 50/60 Hz | 150 W | 12.0 A | 10.0 A | 10.6 oz. (300 g) | UL | VDE | EAC |

FAN HEATER CSL 028

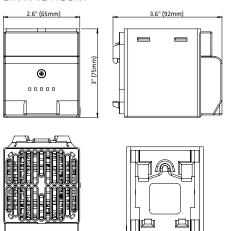
| Part No. DIN mount | Part No. screw mount | Operating voltage | Heating capacity ¹ | Max. current (inrush) | Recommended pre-fuse T (time-delay) | Weight (approx.) | Approva | ıls | |
|-----------------------|-------------------------|--------------------|----------------------------------|--------------------------|--|------------------|---------------------|-----|-----|
| 02811.9-00 | 02811.9-01 | AC 120 V, 50/60 Hz | 250 W | 6.0 A | 10.0 A | 17.6 oz. (500 g) | UL File No. E234324 | - | EAC |
| 02810.9-00 | 02810.9-01 | AC 120 V, 50/60 Hz | 400 W | 9.0 A | 10.0 A | 17.6 oz. (500 g) | UL File No. E234324 | - | EAC |
| 02811.0-00 | 02811.0-01 | AC 230 V, 50/60 Hz | 250 W | 9.0 A | 10.0 A | 17.6 oz. (500 g) | UL | VDE | EAC |
| 02810.0-00 | 02810.0-01 | AC 230 V, 50/60 Hz | 400 W | 15.0 A | 16.0 A | 17.6 oz. (500 g) | UL | VDE | EAC |

¹ at 68 °F (20 °C) ambient temperature



DIMENSIONED DRAWINGS

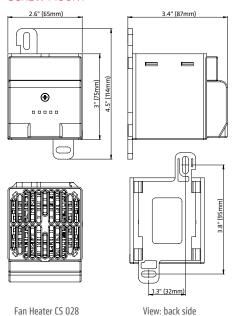
DIN RAIL MOUNT



View: back side

SCREW MOUNT

Fan Heater CS 028

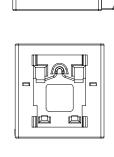


⊛

3.3" (85mm)

3.5" (90mm)

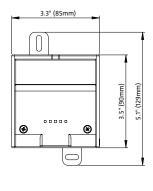
(8)

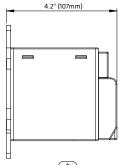


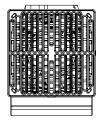
4.4" (113mm)

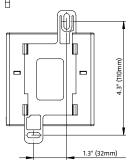
Fan Heater CSL 028

View: back side









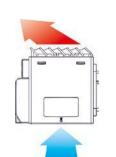
Fan Heater CSL 028

View: back side

ACCESSORY PART FOR FAN HEATER CSL 028

Air guide for improved heat distribution

The air guide is an accessory part for use with the fan heater CSL 028. It can easily be clipped onto the protective grille of the fan heater without use of any tools, and diverts the exiting warm air by 45° . This results in an overall improved heat distribution within an enclosure or cabinet. The temperature above the protective grille is reduced by up to $68~^\circ\text{F/20}~^\circ\text{C}$ (measured approx. 3.9"/100~mm above protective grille) and may make the use of custom heat ducts obsolete.





Air guide Part No. 252017



Fan heater with air guide

| Part No. | Dimensions ² | Plastic | 1 Packing unit | Weight (approx.) |
|----------|------------------------------------|-----------------|----------------|------------------|
| 252017 | 3.3 x 3.3 x 0.5" (85 x 85 x 12 mm) | UL 94V-0, black | 1 piece | 1.2 oz. (35 g) |

² Dimensions when mounted on fan heater.