

COMPACT SEMICONDUCTOR FAN HEATER

CS 028 / CSL 028 | 150 W to 400 W



Fan Heaters CSL 028/CS 028 with clip fixing



Fan Heaters CSL 028/CS 028 with screw fixing

- > Small, compact design
- > Quiet in operation
- > Dynamic heating up
- > Clip or screw fixing

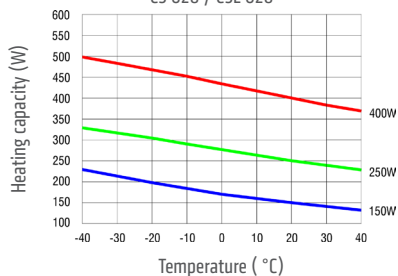
These fan heaters prevent formation of condensation and provide an evenly distributed interior air temperature in enclosures with electric/electronic components. The heaters are connected using the internal terminal connectors. The small size of the CS / CSL 028 heaters make them ideal for use in enclosures where space is at a premium.



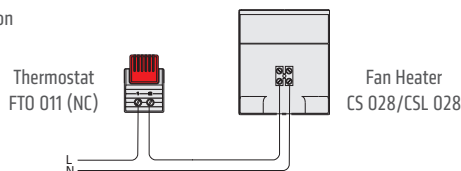
TECHNICAL DATA

| | |
|----------------------------------|---|
| Heating element | PTC resistor – temperature limiting |
| Axial fan, ball bearing | air flow, free flow CS 028: 13.8 m ³ /h CSL 028: 45 m ³ /h (AC 230 V), 54 m ³ /h (AC 120 V) service life 40,000 h at +40 °C (+104 °F) |
| Connection | 2-pole clamp max. 2.5 mm ² (CSL 028 with strain relief), clamping screw torque 0.8 Nm max. |
| Casing | plastic according to UL94 V-0, black |
| Mounting | clip for 35 mm DIN rail, EN 60715 or screw fixing (Ø 5.3 mm) |
| Fitting position | vertical airflow (air outlet up) |
| Dimensions | see drawings |
| Operating/Storage temperature | -45 to +70 °C (-49 to +158 °F) |
| Operating/Storage humidity | max. 90 % RH (non-condensing) |
| Protection type/Protection class | IP20 / II (double insulated) |
| Note | other voltages on request |

Heating capacity / Ambient temperature diagram
CS 028 / CSL 028



Example of connection



FAN HEATER CS 028

| Art. No. clip fixing | Art. No. screw fixing | Operating voltage | Heating capacity ¹ | Inrush current max. | Recommended pre-fuse T (time-delay) | Weight (approx.) | Approvals | | |
|----------------------|-----------------------|--------------------|-------------------------------|---------------------|-------------------------------------|------------------|-----------|---------------------|-----|
| 02800.0-00 | 02800.0-01 | AC 230 V, 50/60 Hz | 150 W | 12.0 A | 10.0 A | 0.3 kg | VDE | UL File No. E234324 | EAC |
| 02800.9-00 | 02800.9-01 | AC 120 V, 50/60 Hz | 150 W | 6.0 A | 10.0 A | 0.3 kg | - | UL File No. E234324 | EAC |

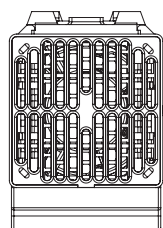
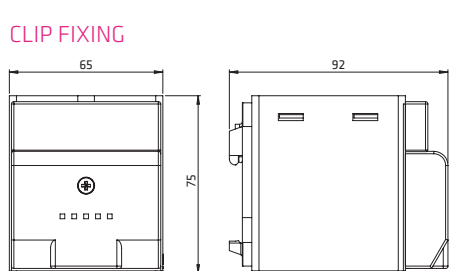
FAN HEATER CSL 028

| Art. No. clip fixing | Art. No. screw fixing | Operating voltage | Heating capacity ¹ | Inrush current max. | Recommended pre-fuse T (time-delay) | Weight (approx.) | Approvals | | |
|----------------------|-----------------------|--------------------|-------------------------------|---------------------|-------------------------------------|------------------|-----------|---------------------|-----|
| 02811.0-00 | 02811.0-01 | AC 230 V, 50/60 Hz | 250 W | 9.0 A | 10.0 A | 0.5 kg | VDE | UL File No. E234324 | EAC |
| 02810.0-00 | 02810.0-01 | AC 230 V, 50/60 Hz | 400 W | 15.0 A | 16.0 A | 0.5 kg | VDE | UL File No. E234324 | EAC |
| 02811.9-00 | 02811.9-01 | AC 120 V, 50/60 Hz | 250 W | 6.0 A | 10.0 A | 0.5 kg | - | 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 | 0.5 kg | - | UL File No. E234324 | EAC |

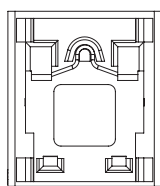
¹ at +20 °C (+68 °F) ambient temperature

TECHNICAL DRAWINGS

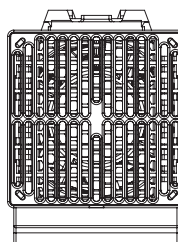
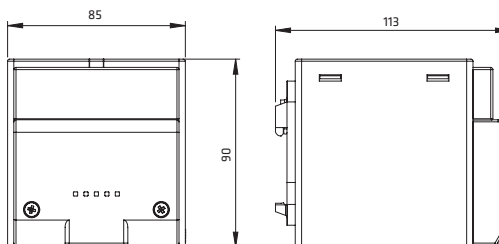
CLIP FIXING



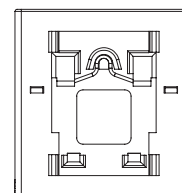
Fan Heater CS 028



View: back side

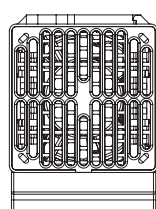
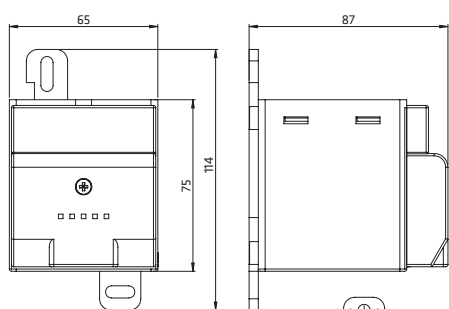


Fan Heater CSL 028

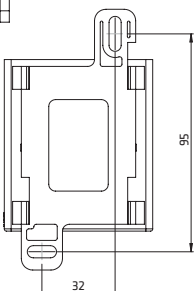


View: back side

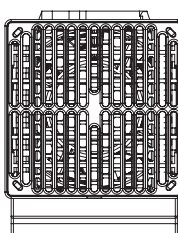
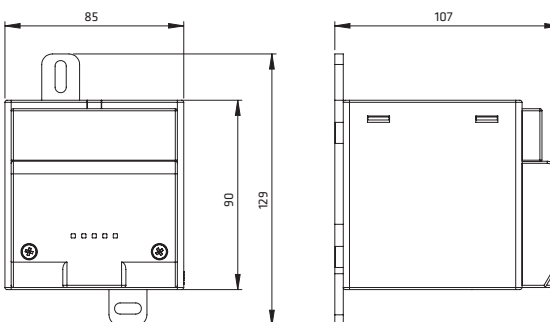
SCREW FIXING



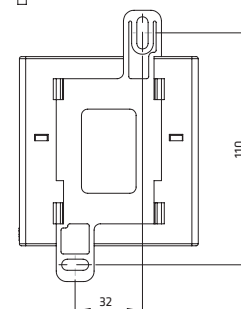
Fan Heater CS 028



View: back side



Fan Heater CSL 028



View: back side

ACCESSORY PART FOR FAN HEATER CSL 028

Air duct for improved heat distribution

The air duct 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 20 °C (measured 100 mm above protective grille) and may make the use of a heat conduction plate obsolete.



| Art. No. | Dimensions ² | Plastic | 1 Packing unit | Weight (approx.) |
|----------|-------------------------|------------------------------|----------------|------------------|
| 252017 | 85 x 85 x 12 mm | according to UL94 V-0, black | 1 piece | 35 g |

² Dimensions when mounted on fan heater.



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