

# TOUCH-SAFE PTC FAN HEATER

CS 028 / CSL 028 | 150 - 400 W



Photo: Fan Heater CSL 028

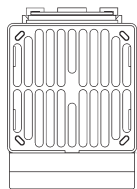
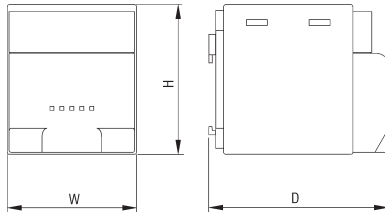
- > Compact size
- > Quiet operation
- > DIN rail or screw mount available
- > Heating power adjusts to ambient temperature

The CS 028 / CSL 028 fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures. The heater is 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 make it ideal for use in enclosures where space is at a premium.

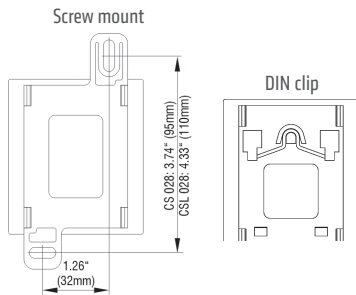


## TECHNICAL DATA

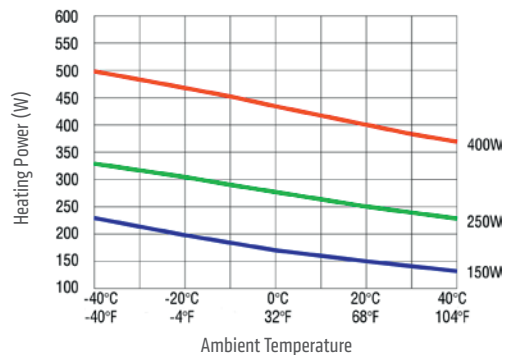
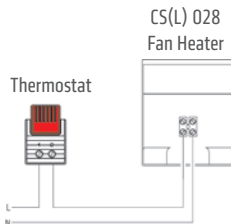
<b>Heating element</b>	PTC resistor - temperature limiting
<b>Surface temperature</b>	150 W / 250 W: max. 122 °F (50 °C) except upper protective grill 400 W: max. 149 °F (65 °C) except upper protective grill measured at 68 °F (20 °C) ambient temperature
<b>Axial fan, ball bearing</b>	service life 40,000 h at 104 °F (40 °C)
<b>Air flow, free blowing</b>	CS 028: 8 cfm (13.8 m <sup>3</sup> /h) CSL 028: 32 cfm (54 m <sup>3</sup> /h) @ AC 120 V; 26 cfm (45 m <sup>3</sup> /h) @ AC 230 V
<b>Connection</b>	2-pole terminal AWG 14 max. (2.5 mm <sup>2</sup> ) with strain relief, torque 0.8 Nm max.
<b>Housing</b>	plastic, UL 94V-0, black
<b>Mounting</b>	screw mount or clip for 35 mm DIN rail, EN 60715
<b>Mounting position</b>	vertical
<b>Operating / Storage temperature</b>	-49 to +158 °F (-45 to +70 °C)
<b>Operating / Storage humidity</b>	max. 90 %RH (non-condensing)
<b>Protection class / Protection type</b>	II (double insulated) / IP20
<b>Approvals</b>	UL File No. E234324 (all), GOST TR (all), VDE (AC 230 V only)
<b>Note</b>	other voltages available upon request



View: back side



Wiring example



Part No. - DIN mount	Part No. - screw mount	Series	Operating voltage	Heating capacity <sup>1</sup>	Max. current (inrush)	Dimensions (H x W x D)	Weight (approx.)
02800.0-00	02800.0-01	CS 028	AC 230 V, 50/60 Hz	150 W	12 A	2.95 x 2.56 x 3.54" (75 x 65 x 90 mm)	10.6 oz. (300 g)
02800.9-00	02800.9-01	CS 028	AC 120 V, 50/60 Hz	150 W	6 A	2.95 x 2.56 x 3.54" (75 x 65 x 90 mm)	10.6 oz. (300 g)
02810.0-00	02810.0-01	CSL 028	AC 230 V, 50/60 Hz	400 W	15 A	3.54 x 3.35 x 4.37" (90 x 85 x 111 mm)	17.6 oz. (500 g)
02810.9-00	02810.9-01	CSL 028	AC 120 V, 50/60 Hz	400 W	9 A	3.54 x 3.35 x 4.37" (90 x 85 x 111 mm)	17.6 oz. (500 g)
02811.0-00	02811.0-01	CSL 028	AC 230 V, 50/60 Hz	250 W	9 A	3.54 x 3.35 x 4.37" (90 x 85 x 111 mm)	17.6 oz. (500 g)
02811.9-00	02811.9-01	CSL 028	AC 120 V, 50/60 Hz	250 W	6 A	3.54 x 3.35 x 4.37" (90 x 85 x 111 mm)	17.6 oz. (500 g)

<sup>1</sup> at 68 °F (20 °C) ambient temperature