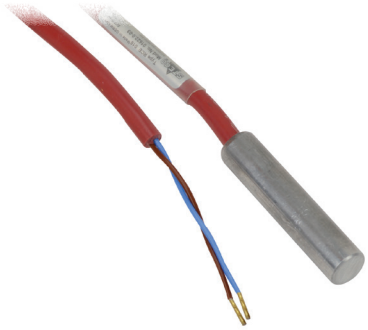
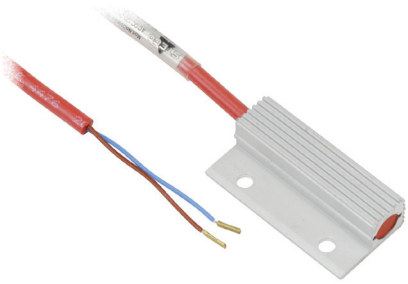
5W to 13W PTC Heaters



5W, 9W



8W, 10W, 13W

Applications

STEGO small positive temperature coefficient heaters are designed to prevent failure of electronic components caused by condensation, corrosion and low temperatures in small enclosures.

Features

- Compact size
- Wide voltage range
- Energy saving
- Heating power adjusts to ambient temperature

5W to 13W PTC Heaters		
Heating Element		PTC Resistor - Temperature limiting
Heater Body		Aluminum, anodized
Insulation		PTFE / Kapton
Mounting	5W, 9W	2 pressure clips included (mounting screws not included)
	8W, 10W, 13W	Panel mount (mounting screws not included)
Mounting Position		Variable
Operating / Storage Temperature		-49 to 158°F [-45 to 70°C]
Operating / Storage humidity		Max 90% RH (non-condensing)
Protection Class		II (double insulated)
Protection Type		IP54
Approvals		CE, VDE, UL Recognized File No. E234324 and E150057,

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

5W to 13W PTC Heaters Specifications

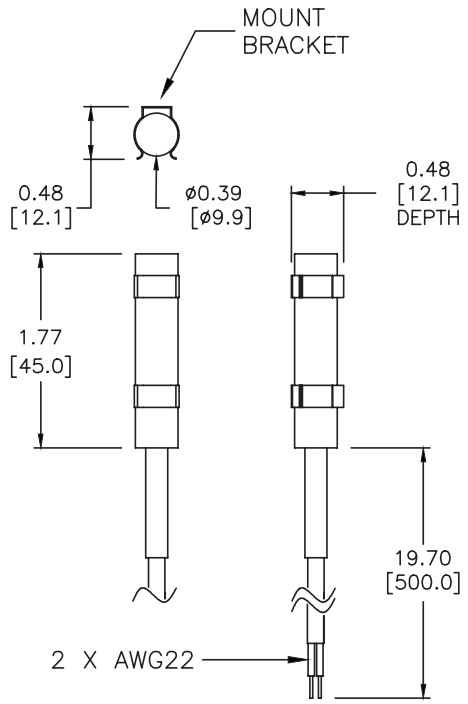
Part Number	*Price*	*Heating Capacity[1]*	*Operating Voltage[2]*	*Max. current (inrush)*	*SurfaceTemperature[1]*	*Weight (approx.)*
016240-03	$;0,xs:	5W	12-24 VAC/VDC	5.8 A	284°F [140°C]	0.7 oz [20g]
016220-03	$;;0,xt:	5W	120–240 VAC/VDC	2.0 A	329°F [165°C]	
016020-03	$;0,xu:	8W	12-24 VAC/VDC	3.7 A	273°F [134°C]	
016020-00	$;0,xv:	8W	120–240 VAC/VDC	2.0 A	302°F [182°C]	
016230-01	$;0,xy:	9W	120–240 VAC/VDC	2.5 A	347°F [150°C]	
016250-02	$;0,xx:	9W	12-24 VAC/VDC	2.4 A	360°F [175°C]	
016090-01	$;0,xz:	10W	12-24 VAC/VDC	5.7 A	270°F [132°C]	1.0 oz [28g]
016090-00	$;;0,x]:	10W	120–240 VAC/VDC	2.5 A	311°F [155°C]	
016100-01	$;;0,x[:	13W	12-24 VAC/VDC	10.0 A	298°F [148°C]	1.2 oz [34g]
016100-00	$;0,x_:	13W	120–240 VAC/VDC	3.0 A	338°F [170°C]	

Notes: [1] At 68°F [20°C] ambient temperature
[2] Operating high voltage heaters below 140V AC/DC reduces heating performance by approximately 10% (min. 110V, max. 265V)

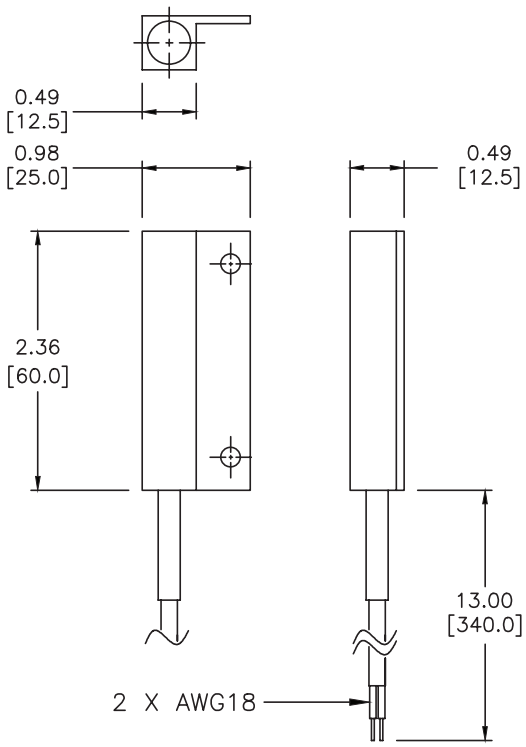
5W to 13W PTC Heaters

Dimensions

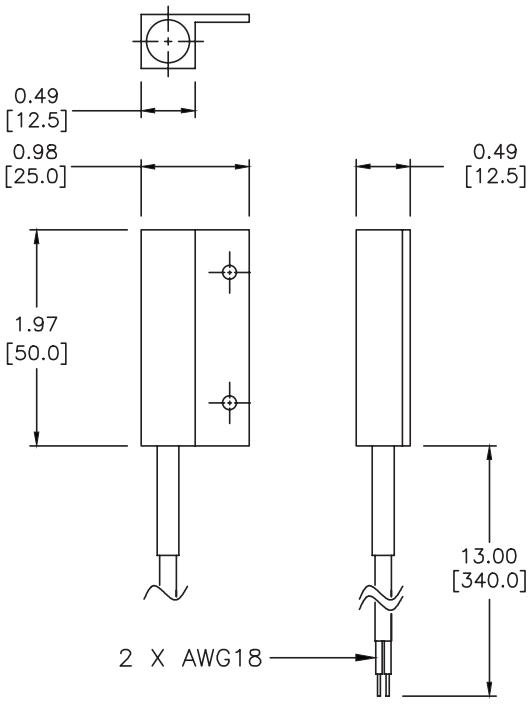
016220-03, 016230-01, 016240-03, 016250-02



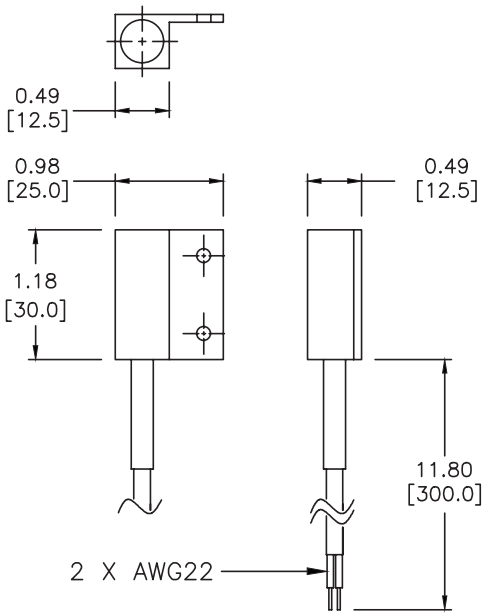
016100-00, 016100-01



016090-00, 016090-01



016020-00, 016020-03



50W to 200W Hazardous Location Heaters



020310-00

Applications

Compact convection heater of temperature class T3 (392°F/200°C max.) for use in hazardous areas to prevent formation of condensation, temperature fluctuations, and for protection against frost in control and switch cabinets, as well as in measuring equipment.

Features

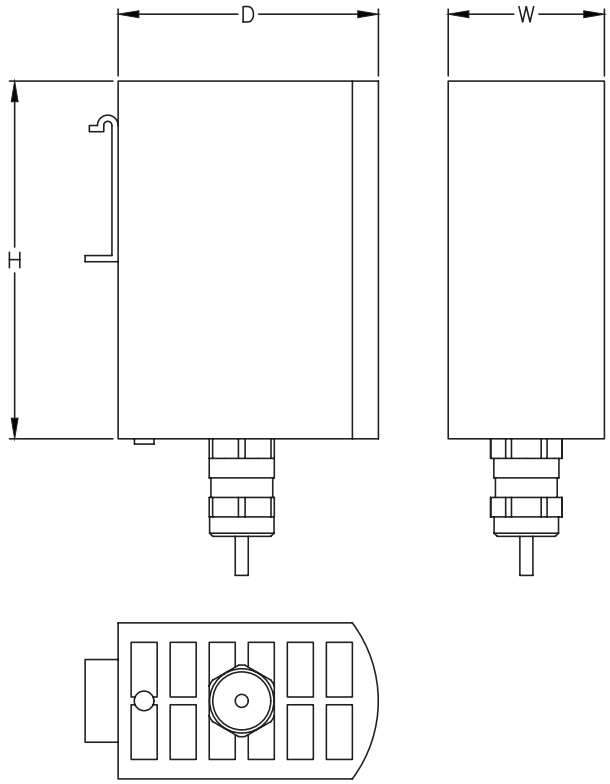
- For use in hazardous areas
- Large convection surface
- DIN rail and screw mounting
- Ready to use with strain relief
- Maintenance free
- Temperature class T3

50W to 200W Hazardous Location Heaters Specifications	
Temperature Class	T3
Ex Protection Type 11 2 GD Gases	Ex db IIC T3 Gb
Dusts	Ex tb IIIC T200 °C Db IP66
Ambient Temperature	-76 to 185°F [-60 to 85°C]
Surface Temperature	Max. 392°F [200°C]
Heating Element	High performance cartridge
Heating Body	Aluminum profile, silver anodized
Connection	Silicone cable (halogen-free) 3 x 18 AWG [0.82mm²], length 3ft [1m]
Connection PE	18 to 14 AWG [0.75 to 2.55mm2]
Housing	Aluminum, silver anodized
Mounting	Clip for 35mm DIN rail, EN 60715 for heating body sizes 3.2 x 1.9" and 4.7 x 2.4.0in [103mm]
Mounting Position	Vertical airflow (connection at bottom)
Storage Temperature	-76 to +185°F [-60 to 85°C]
Operating / Storage Humidity	Max. 90% RH (non-condensing)
Protection Type / Protection Class	IP66 / I (grounded)
Approvals	EPS 16 ATEX 1109X IECEx EPS 16.0048X EAC, CE 0081 Ex 11 2 GD

50W to 200W Hazardous Location Heaters						
Part Number	***Price***	***Operating Voltage***	***Heating Capacity***	***Rec. Pre-fuse T (time-delay)***	***Dimensions***	***Weight (lb)***
020310-00	$01oqe:	AC 230V	50W	0.5 A	4.33 x 1.89 x 3.15[110 x 48 x 80]	1.5
020319-00	$;01oqf:	AC 120V	50W	1.0 A	4.33 x 1.89 x 3.15 [110 x 48 x 80]	1.5
020320-00	$01oqg:	AC 230V	100W	1.0 A	7.09 x 1.89 x 3.15 [180 x 48 x 80]	2.2
020329-00	$01oqh:	AC 120V	100W	2.0 A	7.09 x 1.89 x 3.15[180 x 48 x 80]	2.2
020340-00	$01oqc:	AC 230V	200W	2.0 A	9.45 x 2.36 x 4.72 [240 x 60 x 120]	3.7
020349-00	$01oqd:	AC 120V	200W	4.0 A	9.45 x 2.36 x 4.72 [240 x 60 x 120]	3.7
Note: Dimensions in inches [millimeters].						

50W to 200W Hazardous Location Heaters

Dimensions



GENERAL INFORMATION			
PART NUMBER	HEIGHT	DEPTH	WIDTH
020310–00	4.33 [109.9]	1.89 [48.0]	3.15 [80.0]
020319–00	4.33 [109.9]	1.89 [48.0]	3.15 [80.0]
020320–00	7.09 [180.0]	1.89 [48.0]	3.15 [80.0]
020329–00	7.09 [180.0]	1.89 [48.0]	3.15 [80.0]
020340–00	9.45 [240.0]	2.36 [59.9]	4.72 [119.8]
020349–00	9.45 [240.0]	2.36 [59.9]	4.72 [119.8]

Flat Heaters for Enclosures



50W Flat Heater
061000-00



100W Flat Heater
061010-00

Applications

The flat heater is used to provide evenly distributed temperature within enclosures with electric or electronic components. Its ultra-thin design makes it particularly suitable for high-density applications in which standard enclosure heaters are often too big. Depending on the application, the flat heater can be used as a convection heater or as a contact heater. When used as a contact heater, it offers thermoconductive contact to a component or cabinet wall. Additionally, a specially designed mounting system compensates for thermal expansion of the heater body. Operated as a convection heater, the slim heater warms up the ambient air within a cabinet and is designed for continuous operation.

Features

- Contact/convection heater
- Ultra flat design - only 0.32in [8mm]} thick
- Compact
- Easy, firm installation
- Screw fixing
- Linear expansion compensation
- Integrated temperature cut-out
- Ready-to-use with strain relief

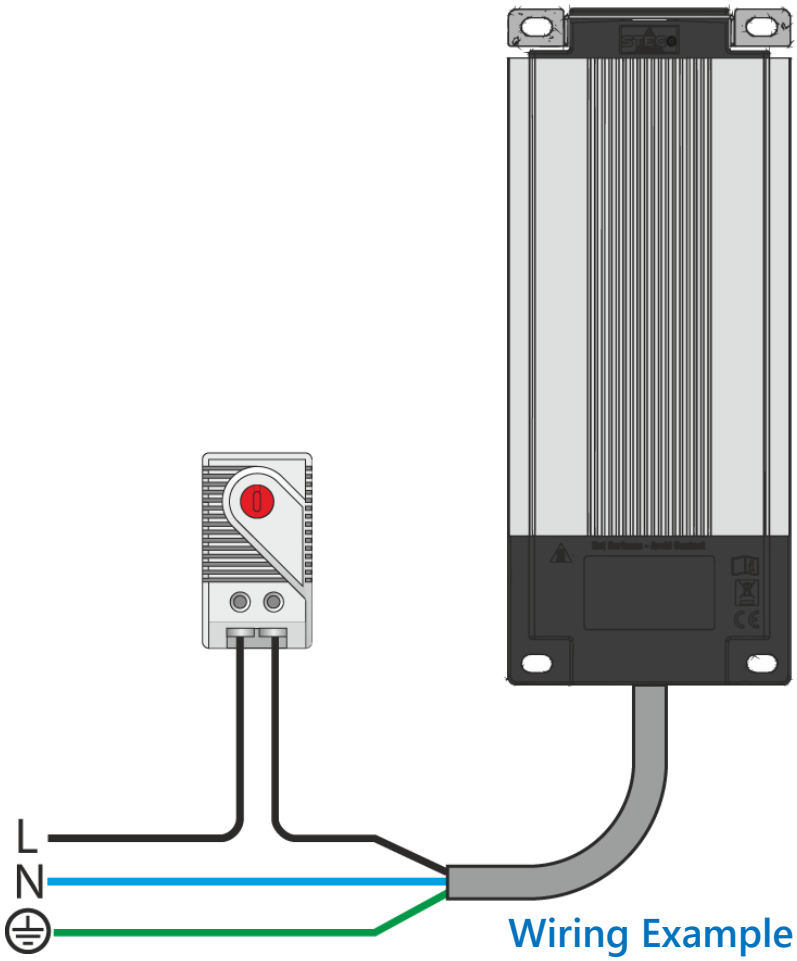
Listings

- UL File E234324

Flat Heaters Specifications	
Heating Element	Resistance heater
Overheat Protection	With automatic reset
Heater Body	aluminum profile
Surface Temperature	Max. 302 °F [150 °C] at 77 °F [25 °C]
Connection	Silicone cable (halogen-free) 3 x AWG 18 [0.75mm²], length 3.3ft [1m]
Housing	Plastic, UL 94V-0, black
Mounting Hardware	M6 screws
Mounting Position	Horizontal, variable connection or vertical, connection on bottom
Operating Temperature	-40 to 140 °F [-40 to 60°C]
Storage Temperature	-40 to 185°F [-40 to 85°C]
Operating / Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	I (earthed)
Protection Type	IP30
Approvals	UL File E234324, VDE, EAC, CE

Flat Heaters for Enclosures					
Part Number	***Price***	***Operating Voltage***	***Heating Capacity***	***Weight (approx.)***	***Drawing Link***
061000-00	$-04I7y:	AC 230V 50/60Hz	50W	0.88 lb [0.4 kg]	PDF
061010-00	$-04I7z:	AC 230V50/60 Hz	100W	1.54 lb [0.7 kg]	PDF
061009-00	$-04I81:	AC 120V 50/60 Hz	50W	0.88 lb [0.4 kg]	PDF
061019-00	$-04I82:	AC 120V 50/60 Hz	100W	1.54 lb [0.7 kg]	PDF

Flat Heaters for Enclosures

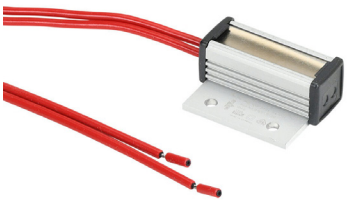


Wiring Example



Size Reference

8W to 10W PTC Heaters



01651.0-00

Applications

This small and flat enclosure heater offers optimum condensation protection in small enclosures, housings, and installation spaces. The PTC heating element has a dynamic response behavior and transfers its heat to an anodized aluminum profile. The compact contact heater is designed for continuous operation as either a convection heater or a contact heater.

Features

- Compact heater
- Wide voltage range
- Double insulated protection

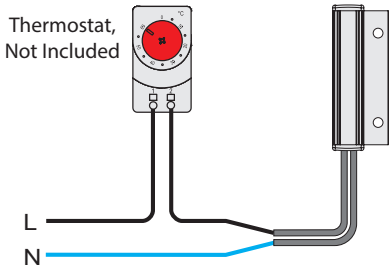
8W to 10W PTC Heaters							
Part Number	*Price*	*Heating Capacity[1]*	*Operating Voltage[2]*	*Max. current (inrush)*	*Recommended Fuse T*	*Weight (approx.)*	*Drawing Links*
01651.0-00	$662y:	8W	120–240 VAC/VDC	2.0 A	2.0 A	0.7 oz [20g]	PDF
01662.0-00	$662z:	10W		4.0 A	4.0 A	1.0 oz [30g]	PDF

1. At 68°F [20°C] ambient temperature
2. Operating with voltages below 140V AC/DC reduces heating performance by approx. 10% (min. 110V)

8W to 10W PTC Heaters Specifications	
Heating Element	PTC Resistor - Temperature limiting
Connection	(2) 0.5mm^2 x stranded wire, 300mm (±8) stranded wire
Housing	Anodized Aluminum
Mounting	Panel Mount
Mounting Position	Variable
Surface Temperature	<356°F [<180°C]
Operating/Storage Temperature	-49 – 158°F [-45 – 70°C]
Operating/Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	II (double insulated)
Protection Type	IP40
*Approvals**	CE, UL Recognized File No. E234324

*To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

Wiring Diagram



20W to 150W Touch-Safe PTC Heaters



06401.0-00

Applications

Compact heater for the protection of electrical and electronic components in enclosures. Its design ensures great convection resulting in excellent heat dissipation. A touch-safe plastic cover provides for low surface temperatures on the side of the device. The practical push-in clamping terminal enables quick and easy electrical connection. The heaters are designed for continuous operation.

Features

- DIN rail clips and pressure clamps for quick mounting
- Low surface temperature
- Wide voltage range
- Insulated plastic casing
- Loop-design heater body for optimal temperature distribution
- Shock- and vibration-proof

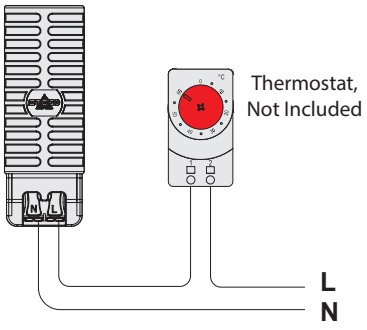
20W to 150W Touch-Safe PTC Heaters							
Part Number	***Price***	***Heating Capacity[1]***	***Operating Voltage***	***Max. current (inrush)***	***Recommended Fuse T***	***Weight (approx.)***	***Drawing Links***
06401.0-00	$;662[:	20W	120–240 VAC/VDC	2.0 A	4.0 A	7 oz [0.2 kg]	PDF
06402.0-00	$662_:	30W					PDF
06403.0-00	$662s:	40W		4.0 A	6.0 A		PDF
06500.0-00	$;662t:	50W				14.1 oz [0.4kg]	PDF
06503.0-00	$662u:	100W		6.0 A	8.0 A	26.5 oz [0.75kg]	PDF
06504.0-00	$0662v:	150W		8.0 A	10.0 A		PDF

1. At 68°F [20°C] ambient temperature

20W to 150W Touch-Safe PTC Heaters Specifications	
Heating Element	PTC Resistor - Temperature limiting
Connection	(2) pressure clamps for stranded wire 0.5 - 1.5mm² [20-16 AWG] (with wire end ferrule) and rigid wire 0.5 – 2.5mm² [20-14 AWG]
Housing	Plastic according to UL94 V-0, black and white
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical airflow (air outlet up, connection on bottom)
Surface Temperature	<+176 °F [<+80 °C], except upper protective grille
Operating/Storage Temperature	-49 – 158°F [-45 – 70°C]
Operating/Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	II (double insulated)
Protection Type	IP20
Approvals*	VDE, UL File No. E234324, EAC, DIN EN 60068-2-27:2010-02, DIN EN 60068-2:64:2009-04, in connection with DIN EN IEC 61373:2011-04, Cat. 1 B

***To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com**

Wiring Diagram



50W to 150W Touch-Safe PTC Heaters with Fixed Thermostat



06510.0-00

Applications

Compact heater with PTC heating elements for heating enclosures. The heater prevents low temperature and thus condensation. Its aluminium profile is designed to achieve an optimized chimney effect, which ensures great convection resulting in excellent heat dissipation in the enclosure. The practical push-in clamping terminal enables quick and easy electrical connection. The heaters are designed for continuous operation.

Features

- DIN rail clips and pressure clamps for quick mounting
- Low surface temperature
- Wide voltage range
- Insulated plastic casing
- Integrated Thermostat
- Loop-design heater body for optimal temperature distribution
- Shock- and vibration-proof

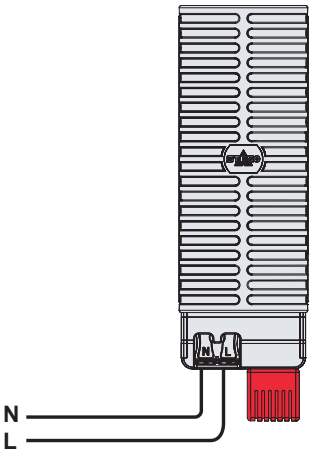
50W to 150W Touch-Safe PTC Heaters with Fixed Thermostat									
Part Number	*Price*	*Heating Capacity[1]*	*Operating Voltage*	*Max. current (inrush)*	*Recommended Fuse T*	*Switch-Off Temperature[2]*	*Switch-On Temperature[2]*	*Weight (approx.)*	*Drawing Links*
06510.0-00	$662x:	50W	120–240 VAC/VDC	4.0 A	6.0 A	59°F [15°C]	41°F [5°C]	14.1 oz [0.4kg]	PDF
06513.0-00	$0662#:	100W		6.0 A	8.0 A	59°F [15°C]	41°F [5°C]	26.5 oz [0.75kg]	PDF
06514.0-00	$;0662!:	150W		8.0 A	10.0 A	59°F [15°C]	41°F [5°C]		PDF
06520.0-00	$662?:	50W		4.0 A	6.0 A	77°F [25°C]	59°F [15°C]	14.1 oz [0.4kg]	PDF
06524.0-00	$06630:	150W		8.0 A	10.0 A	77°F [25°C]	59°F [15°C]	26.5 oz [0.75kg]	PDF

1. At 68°F [20°C] ambient temperature
2. Tolerance of ±9°F [±5K]

50W to 150W Touch-Safe PTC Heaters with Fixed Thermostat Specifications	
Heating Element	PTC Resistor - Temperature limiting
Connection	(2) pressure clamps for stranded wire 0.5 - 1.5mm² [20-16 AWG] (with wire end ferrule) and rigid wire 0.5 – 2.5mm² [20-14 AWG]
Housing	Plastic according to UL94 V-0, black and white
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical airflow (air outlet up, connection on bottom)
Surface Temperature	<+176 °F [<+80 °C], except upper protective grille
Operating/Storage Temperature	-49 – 158°F [-45 – 70°C]
Operating/Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	II (double insulated)
Protection Type	IP20
*Approvals**	VDE, UL File No. E234324, EAC, DIN EN 60068-2-27:2010-02, DIN EN 60068-2:64:2009-04, in connection with DIN EN IEC 61373:2011-04, Cat. 1 B

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

Wiring Diagram



10W to 50W PTC Heaters



16400.9-00

Applications

Compact heater with PTC heating elements for heating enclosures with electrical or electronic components. The heater prevents too-low temperatures and thus condensation harming the components. The design of the aluminium profile creates a chimney effect, which ensures even temperature distribution within the enclosure. The heaters are designed for continuous operation.

Features

- DIN rail clips for quick mounting
- Wide voltage range
- Loop-design heater body for optimal temperature distribution
- Shock- and vibration-proof

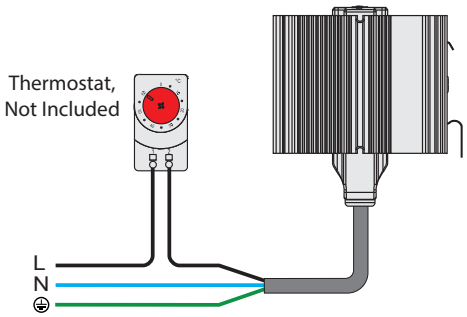
10W to 50W PTC Heaters							
Part Number	*Price*	*Heating Capacity[1]*	*Operating Voltage*	*Max. current (inrush)*	*Recommended Fuse T*	*Weight (approx.)*	*Drawing Links*
16400.9-00	$6631:	10W	120–240 VAC/VDC	2.0 A	4.0 A	7 oz [0.2 kg]	PDF
16401.9-00	$6632:	20W					PDF
16402.9-00	$6633:	30W					PDF
16403.9-00	$6634:	40W		4.0 A	6.0 A		PDF
16404.9-00	$6635:	50W					PDF

1. At 68°F [20°C] ambient temperature

10W to 50W PTC Heaters Specifications	
Heating Element	PTC Resistor - Temperature limiting
Connection	(3) 0.5mm^2 x 300mm stranded wire
Housing	Anodized Aluminum
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical airflow (air outlet up, connection on bottom)
Operating/Storage Temperature	-49 – 158°F [-45 – 70°C]
Operating/Storage Humidity	Max. 90% RH (non-condensing)
Max Surface Temperature	320°F [170°C]
Protection Class	I (insulated)
Protection Type	IP20
*Approvals**	CE, UL Recognized File No. E234324

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

Wiring Diagram



60W to 150W PTC Heaters



16501.0-00

Applications

Compact heater with PTC heating elements for heating enclosures with electrical or electronic components. The heater prevents too-low temperatures and thus condensation harming the components. The design of the aluminium profile creates a chimney effect, which ensures great convection resulting in excellent heat dissipation within the enclosure. The practical push-in clamping terminal ensures quick and easy electrical connection. The heaters are designed for continuous operation.

Features

- DIN rail clips and pressure clamps for quick mounting
- Wide voltage range
- Loop-design heater body for optimal temperature distribution

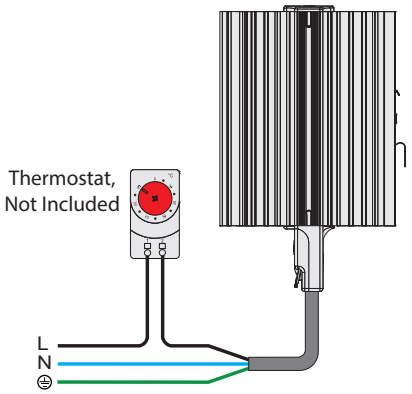
60W to 150W PTC Heaters							
Part Number	Price	Heating Capacity[1]	Operating Voltage	Max. current (inrush)	Recommended Fuse T	Weight (approx.)	Drawing Links
16501.0-00	$6636:	60W	120–240 VAC/VDC	4.0 A	6.0 A	10.6 oz [0.3kg]	PDF
16502.0-00	$6637:	75W					PDF
16503.0-00	$06638:	100W		6.0 A	8.0 A	17.6 oz [0.5kg]	PDF
16504.0-00	$06639:	150W		8.0 A	10.0 A		PDF

1. At 68°F [20°C] ambient temperature

60W to 150W PTC Heaters Specifications	
Heating Element	PTC Resistor - Temperature limiting
Connection	(3) pressure clamps for stranded wire 0.5 - 1.5mm² [20-16 AWG] (with wire end ferrule) and rigid wire 0.5 – 2.5mm² [20-14 AWG]
Housing	Body: Anodized Aluminum Connection Casing: plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical airflow (air outlet up, connection on bottom)
Operating/Storage Temperature	-49 – 158°F [-45 – 70°C]
Operating/Storage Humidity	Max. 90% RH (non-condensing)
Max Surface Temperature	320°F [170°C]
Protection Class	I (insulated)
Protection Type	IP20
Approvals*	VDE, UL File No. 234324, EAC

*To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

Wiring Diagram



PFH-T Compact Fan Heaters with Integrated Thermostat

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY



17020710034

Compact fan heater with PTC heating elements and integrated adjustable thermostat for heating enclosures with electrical or electronic components. The integrated fan moves air across the heater elements to provide quick and efficient heating. Wide range of heating capacities from 200 to 1200W, all housed in the same compact design. Touch-safe outer housing with low surface temperature ensures safe operation.

Features

- High power to size ratio — compact design fits in tight spaces
- Integrated adjustable thermostat for precise temperature control
- PTC technology provides fast, self-regulating heating
- Touch-safe plastic housing; low surface temperature
- Wall or DIN rail mounting (35mm) without tools
- Finger guard at inlet and outlet
- UL recognized

Listings

- UL: E175299
- CSA: 70044987

PFH-T Compact Fan Heaters with Integrated Thermostat							
Part Number	*Price*	*Heating Capacity[1]*	*Voltage*	*Airflow*	*Starting Current*	*Power Consumption*	*Drawing Link*
17020710034	$06#vo:	200W	230 VAC	30 CFM (50 m³/h)	2A	215W	PDF
17020715034	$06#vv:	200W	115 VAC	30 CFM (50 m³/h)	2A	215W	PDF
17040710034	$06#vx:	400W	230 VAC	30 CFM (50 m³/h)	4A	415W	PDF
17040715034	$06#v#:	400W	115 VAC	30 CFM (50 m³/h)	4A	415W	PDF
17065710034	$06#x2:	650W	230 VAC	30 CFM (50 m³/h)	7A	665W	PDF
17065715034	$-06#vi:	650W	115 VAC	30 CFM (50 m³/h)	7A	665W	PDF
17080710034	$-06#vj:	800W	230 VAC	30 CFM (50 m³/h)	8A	815W	PDF
17080715034	$06#vk:	800W	115 VAC	30 CFM (50 m³/h)	8A	815W	PDF
17099710034	$-06#vl:	1000W	230 VAC	47 CFM (80 m³/h)	10A	1015W	PDF
17099715034	$06#vn:	1000W	115 VAC	47 CFM (80 m³/h)	10A	1015W	PDF
17099810034	$06#vp:	1200W	230 VAC	47 CFM (80 m³/h)	12A	1215W	PDF

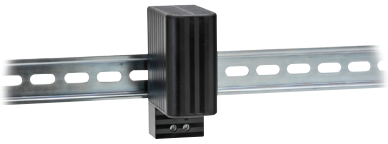
1. Heating performance at Ta = +68 °F [+20 °C]

PFH-T Compact Fan Heaters Specifications	
Heating Element	PTC Resistor - Self-regulating
Connection	Plug terminal connector
Housing	Plastic UL 94V-0, black
Mounting	Snap fastening for 35mm DIN rail (EN 60715) or 4x M5 screws (not included)
Mounting Position	Vertical airflow (air outlet up)
Operating Temperature	-40 to +158 °F [-40 to +70 °C]
Max. Surface Temp (200–500W)	131 °F [55 °C]
Max. Surface Temp (650–1200W)	158 °F [70 °C]
Protection Rating	IP20
Rated Voltage (±10%)	115 or 230 VAC, 50/60 Hz
Weight	0.76 kg (1.68 lb)

10W to 150W Touch-Safe PTC Heaters



060000-00, 060100-00 and 060200-00



060300-00, 060400-00 and 060401-00



060010-00, 060110-00, and 060210-00

Applications

These touch-safe positive temperature coefficient heaters are for use in enclosures. The design of the heater utilizes natural convection, which results in a circulating current of warm air. The heater's design minimizes surface temperatures on the accessible side surfaces of the housing. Models 060010-00, 060110-00, and 060210-00 include a plug-in thermostat and require no additional wiring.

Features

- Compact heater
- Low surface temperature
- Wide voltage range
- Double insulated protection
- DIN rail mounting

10W to 150W Touch-Safe PTC Heaters Specifications		
Heating Element		PTC Resistor - Temperature limiting
Connection	060300-00 060400-00 060401-00	2-pole terminal, 14 AWG [2.5mm] max. solid wire or stranded wire with wire end ferrules, 0.8 N·m max. clamping torque
	060000-00 060010-00 060100-00 060110-00 060200-00 060210-00	4-pole terminal, 14 AWG [2.5mm²], 0.8 N·m max. clamping torque
Housing		Plastic, UL 94V-0, black
Mounting		Clip for 35mm DIN rail, EN 60715
Mounting Position		Vertical only (exhaust up)
Recommended Mounting Distance		Sides: 0.79in [20mm] Bottom/above:1.97in [50mm]
Operating/Storage Temperature	060000-00 060000-00 060200-00 060300-00 060400-00 060401-00	-49 to 158°F [-45 to 70°C]
	060010-00 060110-00	-40 to 158°F [-40 to 70°C]
	060210-00	-49 to 158°F [-45 to 70°C]
Operating / Storage Humidity		Max. 90% RH (non-condensing)
Protection Class		II (double insulated)
Protection Type		IP20
Approvals		CE, UL Recognized File No. E150057 (except 060401-00),RoHS 2 compliant

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

10W to 150W Touch-Safe PTC Heaters

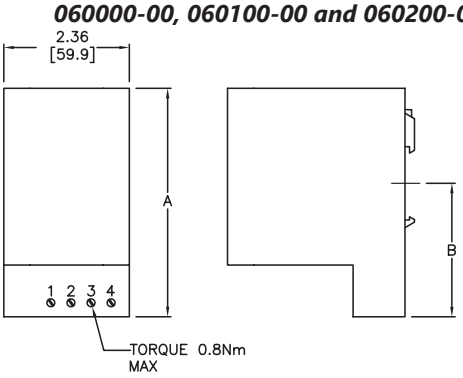
Part Number	*Price*	*Heating Capacity[1]*	*Operating Voltage[2]*	*Max. current (inrush)*	*Air Outlet Temp[3]*	*Switch-offTemp4*	*Switch-onTemp4*	*Weight (approx.)*
060401-00	$0acz:	10W	12-30V AC/DC	8.0 A	187°F [86°C]	—	—	5.0 oz [140g]
060400-00	$0acy:		120-240V AC/DC	1.0 A				
060300-00	$0acx:	20W	120-240V AC/DC	2.5 A	187°F [86°C]	—	—	6.1 oz [170g]
060000-00	$;0act:	50W	120-240V AC/DC (min. 110V, max. 265V)	2.5 A	187°F [86°C]	—	—	10.4 oz [295g]
060010-00	$;0,x#:		120-240V AC (min. 110V, max. 265V)	2.5 A		59°F [15°C]	41°F [5°C]	10.8 oz [305g]
060100-00	$0acu:	100W	120-240V AC/DC (min. 110V, max. 265V)	4.5 A	248°F [120°C]	—	—	10.6 oz [300g]
060110-00	$;;00,x,:		120-240V AC (min. 110V, max. 265V)	4.5 A		59°F [15°C]	41°F [5°C]	11.2 oz [320g]
060200-00	$00acv:	150W	120-240V AC/DC (min. 110V, max. 265V)	8.0 A	293°F [145°C]	—	—	15.5 oz [440g]
060210-00	$;00,y2:		120-240V AC (min. 110V, max. 265V)	8.0 A		59°F [15°C]	41°F [5°C]	15.9 oz [450g]

Notes: 50, 100, 150W rating at 32°F [0°C] ambient temperature10, 20W rating at 68°F [20°C] ambient temperature
Operating with voltages below 140V AC/DC reduces heating performance by approx. 10% (min. 110V)
Measured 2" [50mm] above protective grill
Tolerance of ±9°F [±5K]

10W to 150W Touch-Safe PTC Heaters

Dimensions

060000-00, 060100-00 and 060200-00



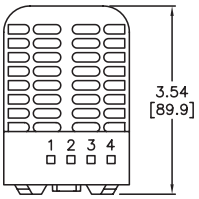
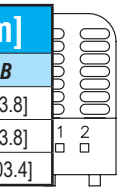
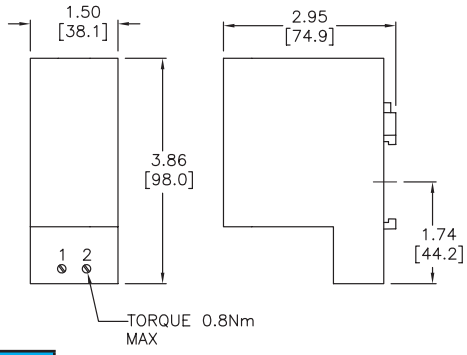


TABLE 1		
PART NUMBER	DIM A	DIM B
060000-00	4.30[109.2]	2.51[63.8]
060100-00	4.30[109.2]	2.51[63.8]
060200-00	5.90[149.9]	4.07[103.4]

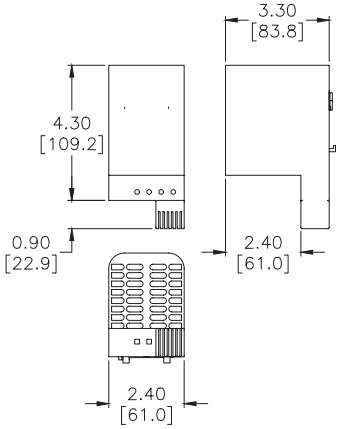
Dimensions – Inches [mm]		
Part Numbers	*DIM A*	*DIM B*
060000-00	4.30 [109.2]	2.51 [63.8]
060100-00	4.30 [109.2]	2.51 [63.8]
060200-00	5.90 [149.9]	4.07 [103.4]



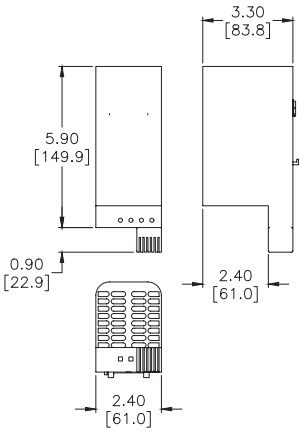
060300-00, 060400-00 and 060401-00



060010-00 and 060110-00

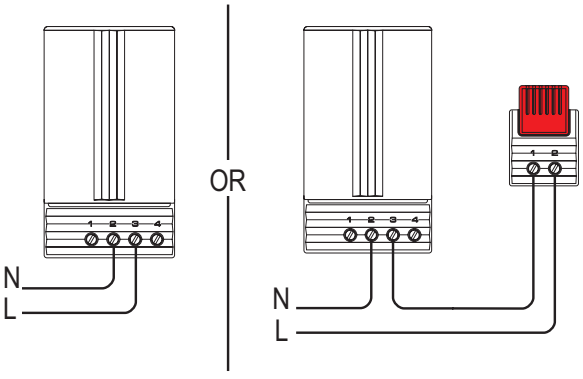


060210-00

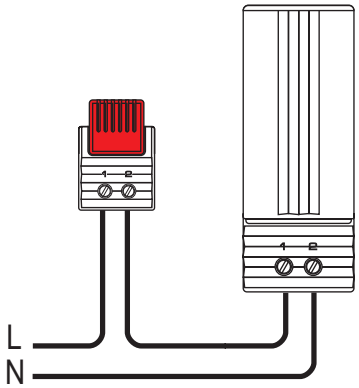


Wiring Diagrams

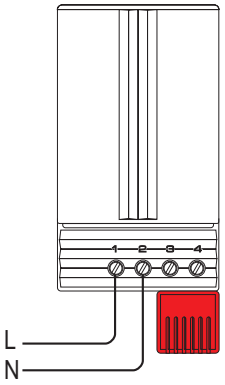
060000-00, 060100-00and 060200-00



060300-00, 060400-00 and 060401-00



060010-00, 060110-00 and 060210-00



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

550W to 650W PTC Fan Heaters



Applications

These semiconductor positive temperature coefficient fan heaters prevent the formation of condensation and ensure an even temperature in enclosures. The integrated thermostat is used to set the desired temperature while the high performance axial fan provides forced air circulation.

Features

- Compact fan heater
- Heating power adjusts to ambient temperature
- Integrated adjustable thermostat
- Built-in overheat protection
- DIN rail mountable

550W to 650W PTC Fan Heaters Specifications	
Heating Element	PTC Resistor - Temperature limiting
Overheat Protection	Built-in temperature limiter
Axial Fan, Ball Bearing	Service life 50,000h at 77°F [25°C]
Connection	2-pole terminal 14 AWG [2.5mm²], max. solid wire or stranded wire with wire end ferrules, 0.8 N·m max.clamping torque
Housing	Plastic, UL 94V-0, light gray
Function Control Light	LED
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical (exhaust up)
Recommended Mounting Distance	Sides: 0.79in [20mm] Bottom/above: 3.94in [100mm]
Operating / Storage Temperature	-49 to 158°F [-45 to 70°C]
Protection Class	II (double insulated)
Protection Type	IP20
Approvals	CE, UL Recognized File No. E204590, RoHS 2 compliant

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

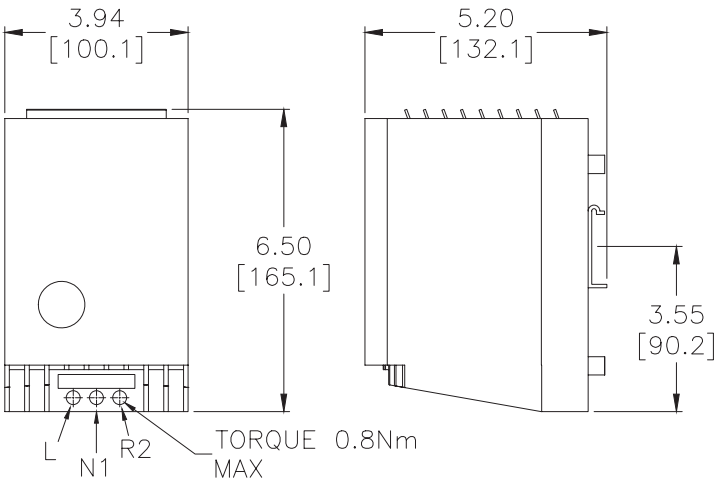
550W to 650W PTC Fan Heaters

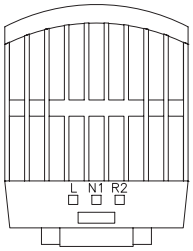
Part Number	*Price*	*Heating capacity[1] (@ 60 Hz)*	*Operating Voltage (Min/Max)*	*Max. current (inrush)*	*Air flow,free blowing*	*ThermostatRange[2]*	*Weight (approx.)*
027009-00	$-00acj:	550W	100-120V AC, 50/60 Hz	14.0 A	20 cfm [35 m3/h]	32 to 140°F	2.0 lb [907g]
027009-01	$;00,yo:					0 to 60°C	
027000-00	$;00,yp:		220-240V AC, 50/60 Hz	11.0 A		0 to 60°C	
027010-00	$;00,yx:	650W	220-240V AC, 50/60 Hz	13.0 A	26 cfm [45 m3/h]	0 to 60°C	2.4 lb [1089g]
027019-00	$00ack:		100-120V AC, 50/60 Hz	15.0 A		32 to 140°F	

Notes: [1] At 68°F [20°C] ambient temperature
[2] Switch difference 12.6 °F ±7°F [7K ±4K]

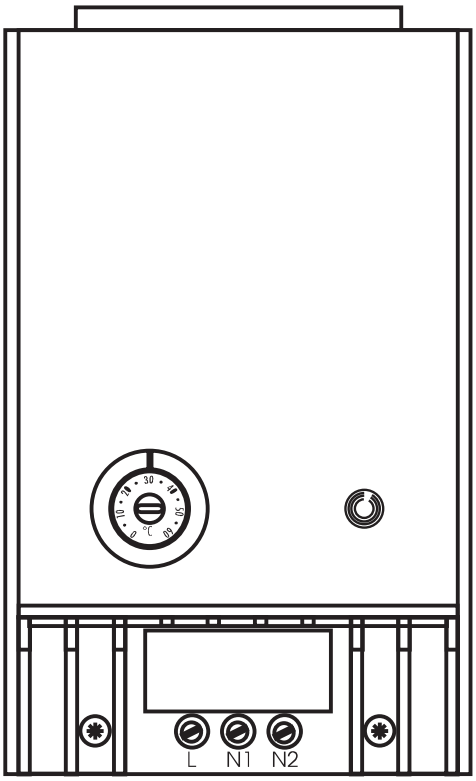
550W to 650W PTC Fan Heaters

Dimensions





Wiring Diagram



Notes: Only connect the L and N1 terminals – N2 is not used and Grounding is not required.
When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

150W to 450W Touch-Safe PTC Fan Heaters



Panel Mount Fan Heaters

Applications

These fan heaters are designed to prevent the formation of condensation and ensure an evenly distributed interior air temperature in enclosures. The heater is connected using the internal terminal connectors. The desired temperature can be set and maintained by an external thermostat (available separately) and the high-performance axial fan provides forced air circulation. The heater design minimizes side surface temperatures of the housing. The small size of these heaters makes them ideal for use in enclosures where space is at a premium.

Features

- Compact fan heater
- Quiet operation
- Heating power adjusts to ambient temperature
- Models available that are both DIN rail mountable as well as panel mounted



DIN Mount Fan Heaters

150W to 450W Touch-Safe PTC Fan Heaters Specifications		
Heating Element	***DIN Mount***	***Panel Mount***
	PTC Resistor - Temperature limiting	
Axial Fan,Ball Bearing	Service life 40,000h at 104°F [40°C]	
Connection	2-pole terminal 14 AWG [2.5mm], max. solid wire or stranded wire with wire end ferrule, 0.8 N·m max. clamping torque	
Housing	Plastic, UL 94V-0, black	
Mounting	Clip for 35mm DIN rail, EN 60715	Screw mount
Mounting Position	Vertical (exhaust up)	
Recommended Mounting Distance	Sides: 0.79in [20mm] Bottom/above: 3.94in [100mm]	
Operating / Storage Temperature	-49 to 158°F [-45 to 70°C]	
Operating / Storage Humidity	Max. 90% RH (non-condensing)	
Protection Class	II (double insulated)	
Protection Type	IP20	
Approvals	CE, UL Recognized File No. E234324, RoHS 2 compliant	

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

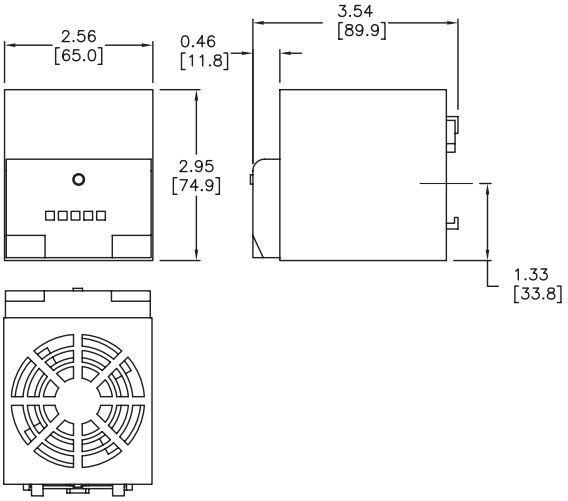
150W to 450W Touch-Safe PTC Fan Heaters								
Part Number DIN Mount	***Price***	***Part Number Panel Mount***	***Price***	***Heating Capacity[1]***	***Operating Voltage***	***Max. current (inrush)***	***Air flow,free blowing***	***Weight (approx.)***
028009-00	$-00acl:	***028009-01***	$00acn:	150W	120V AC, 50/60 Hz	6.0 A	8 cfm [13.8 m³/h]	10.6 oz [301g]
028000-00	$;00,y3:	***028000-01***	$;00,y4:		230V AC, 50/60 Hz	12.0 A		
028119-00	$;00,y5:	***028119-01***	$;00,y6:	250W	120V AC, 50/60 Hz	6.0 A	32 cfm [54 m³/h]	17.6 oz [499g]
028110-00	$;00,y9:	***028110-01***	$;00,ya:		230V AC, 50/60 Hz	9.0 A	26 cfm [45 m³/h]	
028109-00	$00aco:	***028109-01***	$00acp:	400W	120V AC, 50/60 Hz	9.0 A	32 cfm [54 m³/h]	
028100-00	$;;00,yf:	***028100-01***	$;00,yg:		230V AC, 50/60 Hz	15.0 A	26 cfm [45 m³/h]	

Note: [1]At 68°F [20°C] ambient temperature @ 60Hz

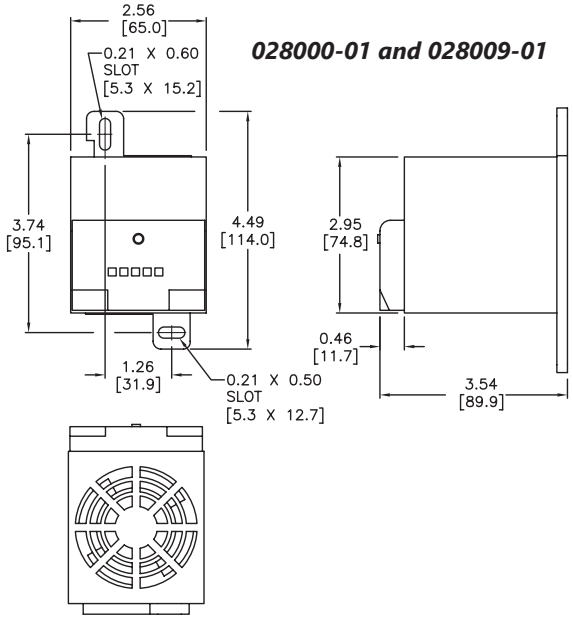
150W to 450W Touch-Safe PTC Fan Heaters

Dimensions

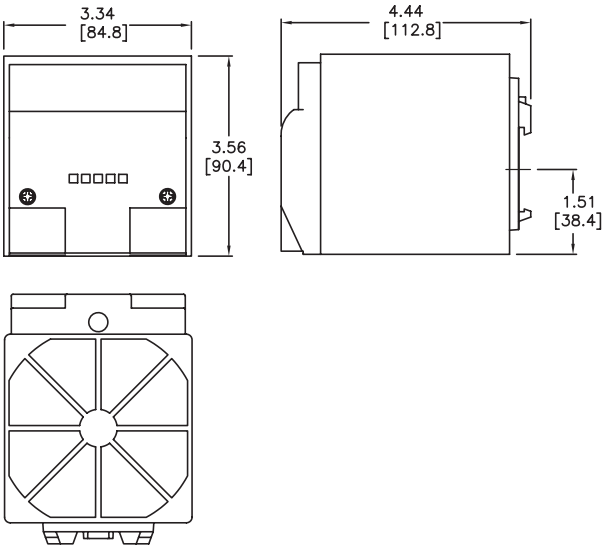
028000-00 and 028009-00



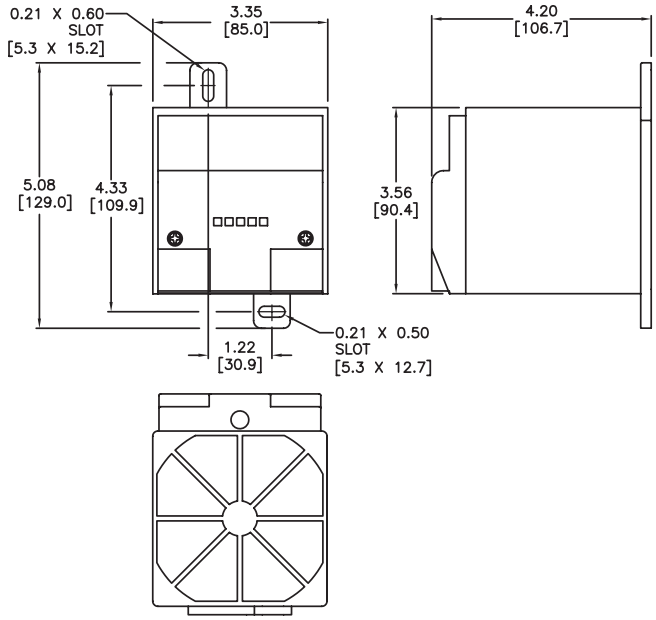
028000-01 and 028009-01



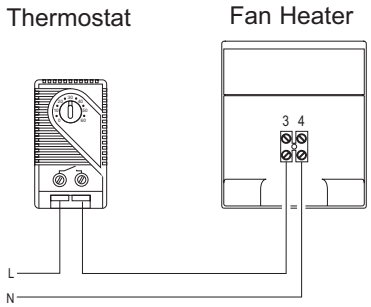
028100-00, 028109-00, 028110-00, 028119-00



028100-01, 028109-01, 028110-01, 028119-01



Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

250W to 400W Touch-Safe PTC Fan Heaters with Integral Thermostat



Panel Mount Fan Heater



DIN Mount Fan Heater

Applications

These touch-safe positive temperature coefficient fan heaters prevent the formation of condensation and provide evenly distributed interior air temperature in enclosures. The touch-safe plastic housing and the small size make these heaters ideal for use in enclosures with a high packing density. Each heater is equipped with a fixed set point thermostat and is easily wired via external pressure clamps. DIN rail or screw tab mounting options are available. The robust panel mounting is particularly suitable for applications with high vibration.

Features

- Compact fan heater
- Integrated pre-set thermostat
- Quiet operation
- Heating power adjusts to ambient temperature
- DIN rail or panel mount available

250W to 400W Touch-Safe PTC Fan Heaters with Integral Thermostat Specifications		
Heating Element	***DIN Mount***	***Panel Mount***
	PTC Resistor - Temperature limiting	
Surface Temperature	250W: max. 122°F [50°C] 400W: max 149°F [65°C]Each except upper protective grill at 68°F [20°C] ambient temperature	
Overheat Protection	Built-in temperature limiter	
Axial Fan, Ball Bearing	Service life 40,000h at 104°F [40°C]	
Axial Fan, Free Blowing	32 cfm [54 m³/h] @ 120V AC; 26 cfm [45 m³/h] @ 230V AC	
Connection	2-pole dual pressure clamp 14 AWG [2.5mm²], max. solid wire 16 AWG [1.5mm²] max. stranded wire with wire end ferrule	
Housing	Plastic, UL 94V-0, black	
Mounting	Clip for 35mm DIN rail, EN 60715	Screw mount - M5 screws and washer (not included)
Mounting Position	Vertical airflow (air outlet up), horizontal airflow	
Operating / Storage Temperature	-40 to 158°F [-40 to 70°C]/-49 to 158°F [-45 to 70°C]	
Recommended Mounting Distance	Sides: 0.79in [20mm] Bottom/above: 3.94in [100mm]	
Operating / Storage Humidity	Max. 90% RH (non-condensing)	
Protection Class	II (double insulated)	
Protection Type	IP20	
Approvals	CE, UL Recognized File No. E150057, RoHS 2 compliant	

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

250W to 400W Touch-Safe PTC Fan Heaters with Integral Thermostat

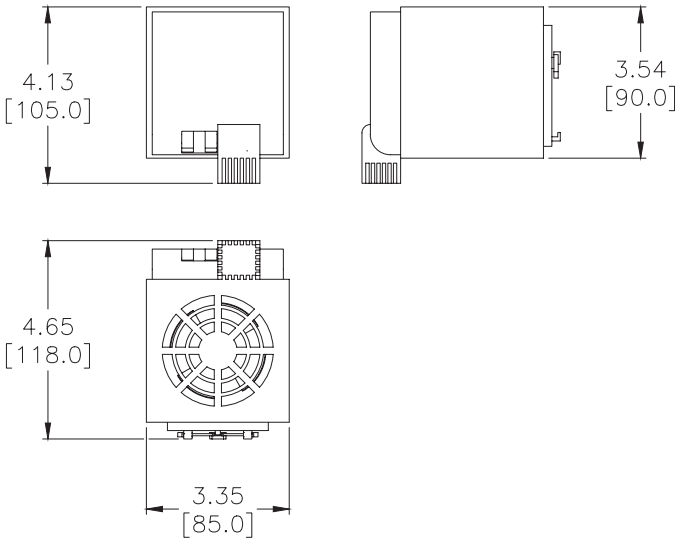
Part Number DIN Mount	Price	Part Number Panel Mount	Price	Heating Capacity[1]	Operating Voltage	Max. current (inrush)	Switch-offTemp[2]	Switch-onTemp[2]	Weight (approx.)
028219-06	$;00,y7:	028219-08	$;00,y8:	250W	120V AC, 50/60 Hz	6.0 A	59°F [15°C]	41°F [5°C]	17.6 oz[499g]
028210-06	$;00,yb:	028210-08	$;00,yc:		230V AC, 50/60 Hz	9.0 A			
028209-06	$;00,yd:	028209-08	$;00,ye:	400W	120V AC, 50/60 Hz	9.0 A	59°F [15°C]	41°F [5°C]	
028200-06	$;00,yh:	028200-08	$;-00,yi:		230V AC, 50/60 Hz	15.0 A			

Notes: [1] At 68°F [20°C] ambient temperature @ 60Hz
[2] Tolerance of ±9°F [±5 K]

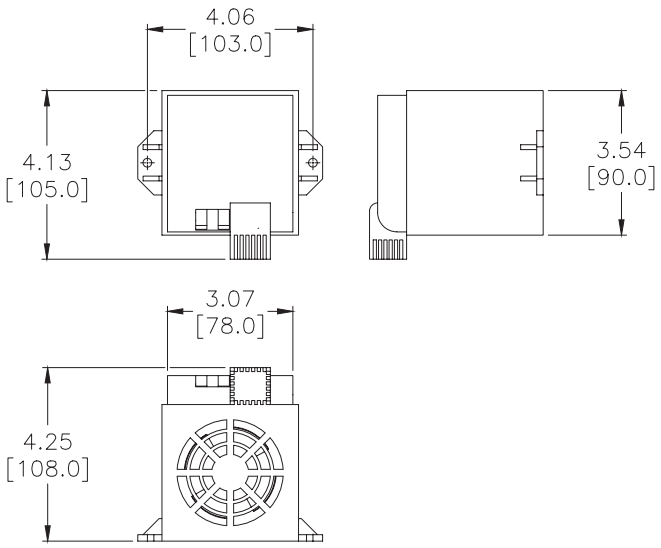
250W to 400W Touch-Safe PTC Fan Heaters with Integral Thermostat

Dimensions

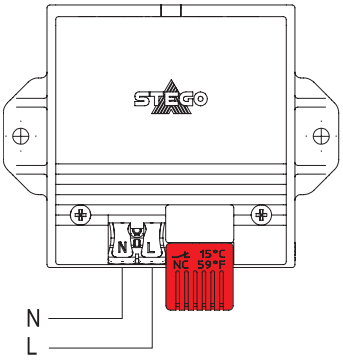
DIN Rail Mount



Panel Mount



Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

500W to 700W Space-Saving Fan Heaters



35mm DIN Rail Mounting



Panel Mounting

Applications

These compact high-performance fan heaters help to prevent the formation of condensation and provide an evenly distributed interior air temperature in enclosures with electric/electronic components. These fan heaters are available with two different mounting systems – panel mounting or 35mm DIN rail mounting.

Features

- Compact size
- Flat design
- Built-in overheat protection
- DIN rail or panel mountable

500W to 700W Space-Saving Fan Heaters Specifications		
Heating Element	**35mm DIN Rail Mount**	**Panel Mount**
	High performance cartridge	
Temperature Safety Cut-Out	With automatic reset and second-tier one shot fuse	
Axial Fan, Ball Bearing	Service life 50,000h at 77°F [25°C]	
Connection	2-pole dual pressure clamp 14 AWG [2.5mm²], max. solid wire 16 AWG [1.5mm²] max. stranded wire with wire end ferrule	
Housing	Plastic, UL 94V-0, black	
Mounting	Twist clip for 35mm DIN rail,EN 60715	M6 screws and washers (not included), torque 2 N·m max.
Mounting Position	Vertical airflow (air outlet up)	
Operating/Storage Temperature	-49 to 158°F [-45 to 70°C]	
Recommended Mounting Distance	Sides: 0.79in [20mm] Bottom: 3.94in [100mm] Above: 5.91in [150mm]	
Operating / Storage Humidity	Max. 90% RH (non-condensing)	
Protection Class	Heater: II (double insulated), fan: I (grounded)	
Protection Type	IP20	
Approvals	CE, UL Recognized File No. E234324, RoHS 2 compliant	

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

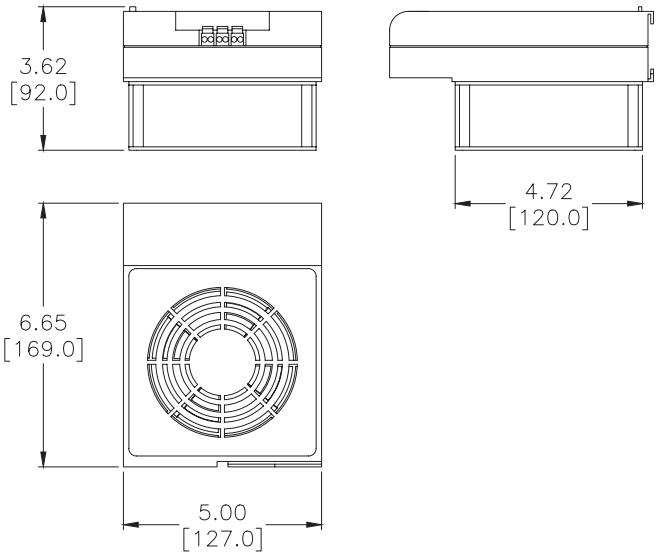
500W to 700W Space-Saving Fan Heaters								
Part Number DIN Rail Mount	**Price**	**Part Number Panel Mount**	**Price**	**Heating Capacity[1]**	**Operating Voltage**	**Max. current (inrush)**	**Air flow,free blowing**	**Weight (approx.)**
030849-00	$;-00,yj:	—	—	500W	120V AC, 50/60 Hz	6.3 A	88 cfm[150 m³/h]	49.6 oz[1406g]
030839-00	$;00,yq:	—	—	600W	120V AC, 50/60 Hz	6.3 A		
030829-00	$;00,yy:	**030829-01**	$;00,yz:	700W	120V AC, 50/60 Hz	8.0 A		
030820-00	$;;00,y]:	**030820-01**	$;;00,y[:		230V AC, 50/60 Hz	4.0 A		

Notes: At 68°F [20°C] ambient temperature @ 60Hz.

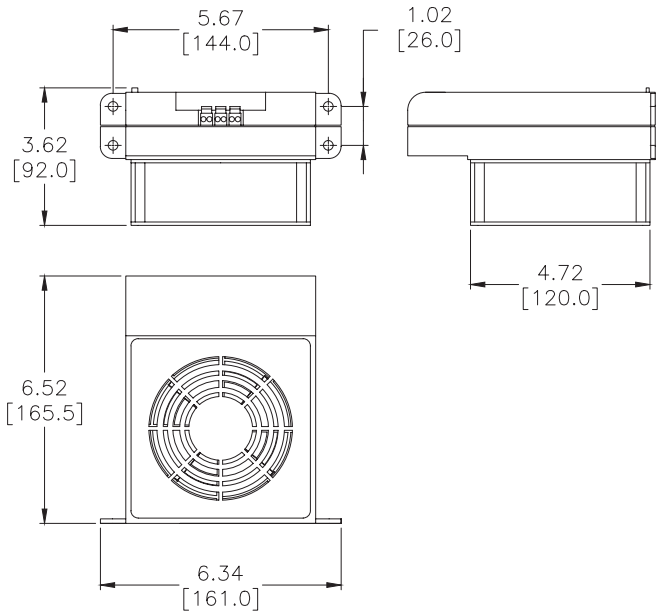
500W to 700W Space-Saving Fan Heaters

Dimensions

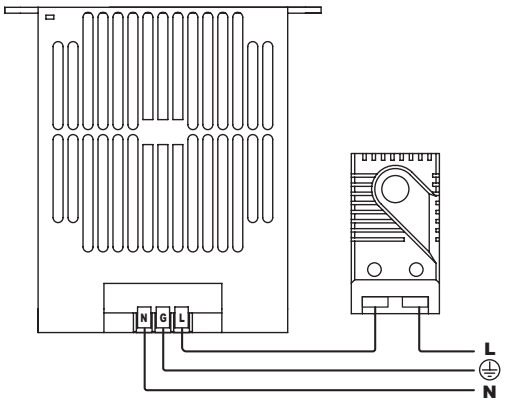
Twist Clip Mounting Models



Screw Mounting Models



Wiring Diagram



Note: When wiring 230 volt units for North American installations, “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

Enclosure Fan Heaters

Applications

The compact high performance fan heater prevents formation of condensation and frost and provides evenly distributed interior air temperatures in enclosures with electronic components. The fan heater includes an integrated electronic thermostat with either an internal or external sensor. External sensors are sold separately in three cable length options. The external sensor can be positioned freely anywhere in the enclosure for precise measurements of temperature and humidity.

Features

- High DC heating performance
- Integrated adjustable thermostat
- Small hysteresis
- Integrated switch module
- Screw or DIN rail mount
- Optical indicator (LED)
- Hot air exhausts upward



Enclosure Heater p/n 130921-16



Enclosure Heater p/n 130921-17

General Specifications	
Heating element	High performance cartridge
Overheat protection	Automatic reset and second-tier one shot fuse to protect against overheating in case of fan failure
Heater body	Extruded aluminum profile
Connection	2-pole Push-In connection clamp stranded wire[1] AWG 16 [1.5mm²] with strain relief; max. AWG 12 [2.5mm²]
Axial fan, ball bearing	Service life 50,000 hr at +77°F(+25°C)
Air flow, free flowing	94 cfm (160m³/hr)
Housing	Plastic, UL 94V-0, black
Mounting	M5 screws and washers (not included), torque 2 N·m max.
Dimensions	3.9 x 5.7 x 6.5in [100 x 145 x 166mm]
Weight	Approx. 2.86 lbs. [1.3 kg]
Operating temperature	-4 to 167°F [-20 to 75°C]
Thermostat setting range	14 to 122°F
Thermostat switching difference	5.4°F at 77°F
Thermostat switching tolerance	1.8°F
Protection type	IP20
Approvals	CE, EAC, UL Recognized File No. E234324
Note: When connecting with stranded wires, wire end ferrules must be used.	

Enclosure Fan Heaters

Part Number	Price	Operating Voltage	Heating Capacity	Temperature Sensor	Mounting Style	Drawing Link
030921-16	$;-05i0t:	24 VDC	200W	internal	Foot	PDF
030921-17	$-05i0u:			external		PDF
030973-16	$-05i0v:	56 VDC	800W	internal		PDF
130921-16	$-05i0y:	24 VDC	200W	internal	DIN rail/panel	PDF
130921-17	$-05i0z:			external		PDF

External Temperature Sensors

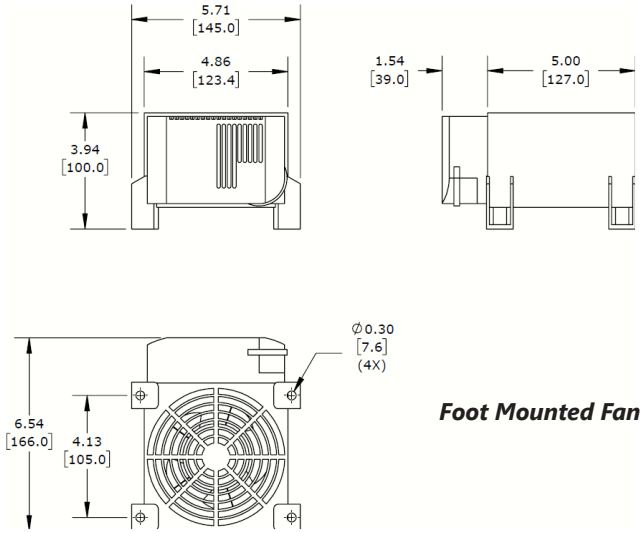
Part Number	Price	Cable Length
267071	$-5i0_:	1m
267072	$-5i0#:	2m
267126	$;-5i0!:	3m



Sensor p/n 267071

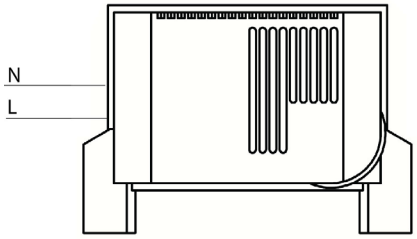
Enclosure Fan Heaters

Dimensions



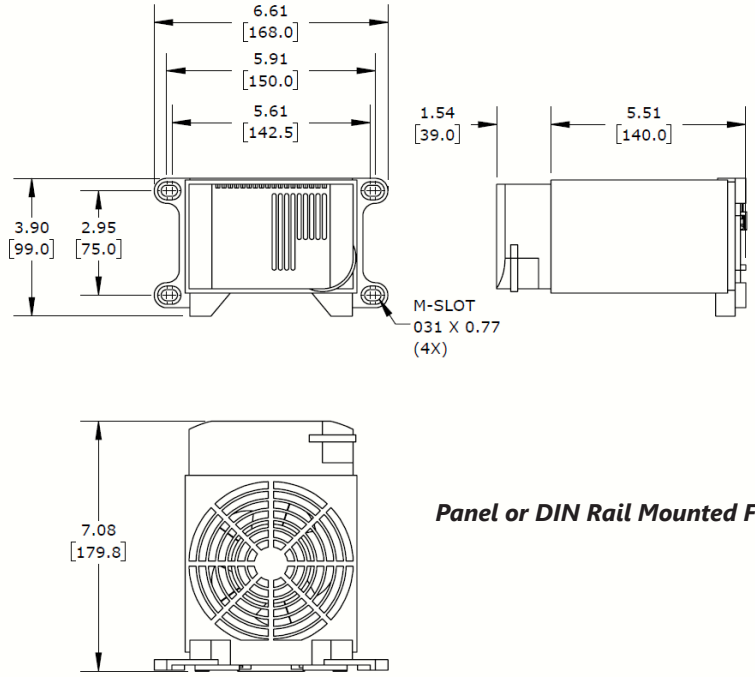
Foot Mounted Fan Heaters

Wiring Diagram



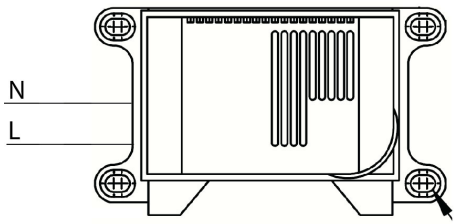
Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

Dimensions



Panel or DIN Rail Mounted Fan Heaters

Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

950W Fan Heaters



Foot Mounted Fan Heaters



Panel or DIN Rail Mounted

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

Applications

These fan heaters are designed to prevent the formation of condensation and ensure an evenly distributed interior air temperature in enclosures. These fan heaters are available with an integrated thermostat for temperature control, pre-set hygrostat for humidity control, or without integral controls.

Features

- Compact design
- Available with integrated adjustable thermostat, fixed hygrostat or withoutintegral controls
- Double insulated plastic housing
- Built-in overheat protection

950W Fan Heaters Specifications	
Heating Element	High-performance cartridge
Overheat Protection	With automatic reset and second-tier one shot fuse
Heater Body	Extruded aluminum
Axial Fan, Ball Bearing	Service life 50,000h at 77°F [25°C]
Connection	2-pole terminal with strain relief 16 AWG [1.5mm²] max. solid wire or stranded wire with wire end ferrules,0.8 N·m max.clamping torque
Housing	Plastic, UL 94V-0, black
Mounting - Footed	M5 screws (not included)
Mounting - Panel or DIN Rail	Clip for 35mm DIN rail, EN 60715 or M6 screws (not included)
Mounting Position	Horizontal only
Recommended Mounting Distance	Sides: 0.79in [20mm] Bottom: 0.91in [23.1mm] Above: 3.94in [100mm]
Operating / Storage Temperature[1]	-49 to 158°F [-45 to 70°C]
Operating / Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	II (double insulated)
Protection Type	IP20
Approvals	CE, UL Recognized File No. E234324, RoHS 2 compliant
Note: [1] Operating temperature of heater with integrated hygrostat: +32° to +140°F [0° to +60°C]	

950W Foot Mounted Fan Heater

Part Number	*Price*	*Heating Capacity*	*Operating Voltage*	*Max Inrush*	*Setting Range[1]*	*Air flow,free blowing*	*Weight (approx.)*
030599-00	$00acq:	950W	120V AC, 50/60 Hz	8.0 A continuous	32 to 140°F	94 cfm[160 m³/h]	49.6 oz[1406g]
030510-00	$;00,z0:		230V AC, 50/60 Hz	4.0 A continuous	0 to 60°C		

Note: [1] Switching difference 12.6 °F ± 7°F tolerance [7K ± 4K]

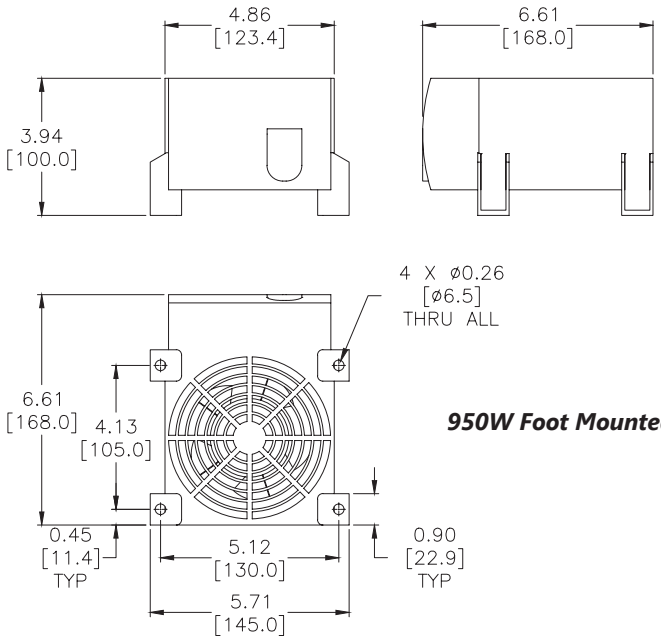
950W Panel or DIN Rail Mounted Fan Heaters

Part Number	*Price*	*Heating Capacity*	*Operating Voltage*	*Max Inrush*	*Setting Range[1]*	*Air flow,free blowing*	*Weight (approx.)*
130599-00	$;00ac]:	950W	120V AC, 50/60 Hz	8.0 A continuous	32 to 140°F	94 cfm[160 m³/h]	49.6 oz[1406g]
130599-02	$;00,y#:				none (no integrated controls)		
130510-00	$;;00,y,:		230V AC, 50/60 Hz	4.0 A continuous	0 to 60°C		

Note 1: Switching difference 12.6 °F ± 7°F tolerance [7K ± 4K]

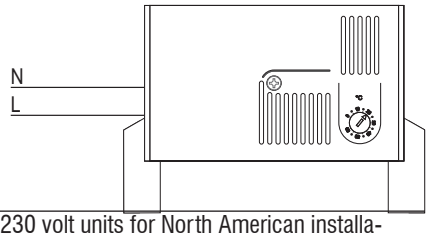
950W Fan Heaters

Dimensions



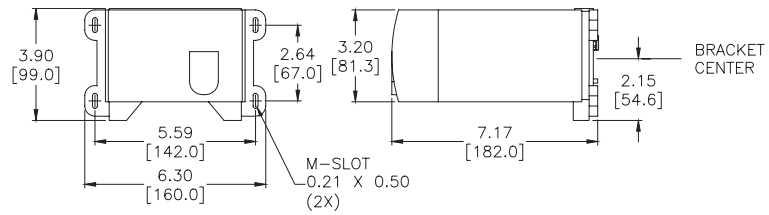
950W Foot Mounted Fan Heaters

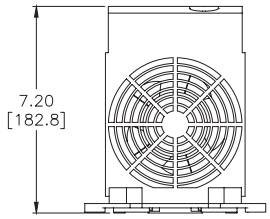
Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

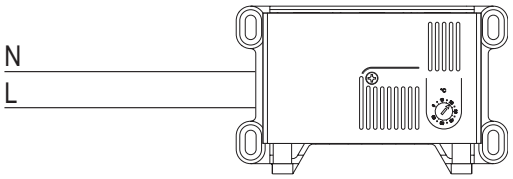
Dimensions





950W Panel or DIN Rail Mounted Fan Heaters

Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

1000W Compact PTC Fan Heaters

Applications

These compact fan heaters are designed to prevent condensation and ensure an evenly distributed air temperature in enclosures. The plastic double insulated housing provides protection against contact with current-carrying components. This series is available with an optional, integrated fixed-point thermostat. These heaters were designed to accommodate DIN rail or panel mounting.

Features

- Compact design
- High heating performance
- Double insulated plastic housing
- Panel or DIN Rail Mount
- Optional integrated fixed thermostat



Compact Fan Heater



Compact Fan Heaterw/Integrated Thermostat

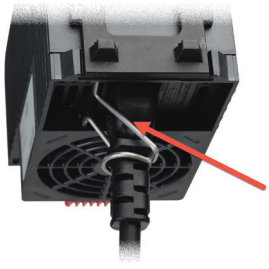
1000W Compact PTC Fan Heaters Specifications	
Heating Element	PTC resistor - temperature limiting
Overheat Protection	Built-in temperature limiter
Surface Temperature	Max. 176°F [80°C], except upper protective grillat 68°F [20°C] ambient temperature
Air Outlet Temperature	Max 257°F [125°C], 2in [50mm] above grill
Axial Fan, Ball Bearing	Service life 70,000h at 77°F [25°C]
Air Flow, Free Blowing	37 cfm [63 m³/h]
Connection	Male power insert connector according to IEC 320 C18
Housing	Plastic, UL 94V-0, black
Mounting	Clip for 35mm DIN rail, EN 60715 or M5 screws (not included) – tightening torque 2 N·m max.
Mounting Position	Air flow directed up
Recommended Mounting Distance	Sides: 0.79in [20mm] Bottom/above: 3.94in [100mm]
Operating / Storage Temperature	-40 to 140°F [-40 to 60°C] / -40 to 158°F [-40 to 70°C]
Protection Class	II (double insulated)
Protection Type	IP20
Approvals	CE, UL Recognized File No. E234324, RoHS 2 compliant
Notes: Connectors and cables for electrical connection are not included with the heater. Connection cables are available as accessories.	

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

1000W Compact PTC Fan Heaters

Part Number DINMount	*Price*	*Part Number PanelMount*	*Price*	*Heating Capacity[1]*	*Operating Voltage*	*Max. current (inrush)*	*Integrated Thermostat*	*Switch-OffTemp[2]*	*Switch-OnTemp[2]*	*Weight (approx.)*
032029-00	$;00,z5:	***032029-01***	$;00,z6:	***1000W***	100-120V AC 50/60 Hz	18.0 A	YES	59°F [15°C]	41°F [5°C]	***16.5 oz [468g]***
032020-00	$;00,z9:	***032020-01***	$;00,za:		220-240V AC 50/60 Hz	12.0 A		59°F [15°C]	41°F [5°C]	

Notes: [1] At 77°F [25°C] ambient temperature
[2] Tolerance of ±9°F [±5K]



Retaining Clip

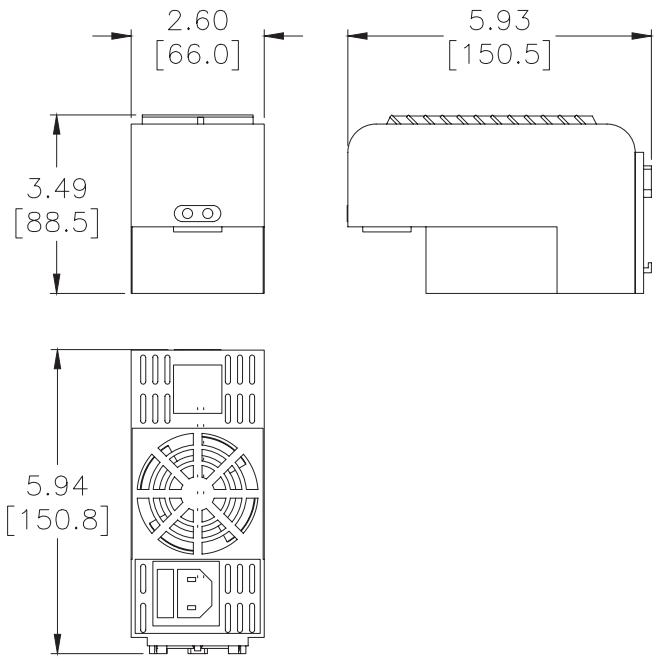
Accessories

Part Number	*Description*	*Price*
244380	2m [6.5 ft] cable for 1000W PTC heater	$;0,zb:
237009	Retaining clip for 244380	$;,zc:

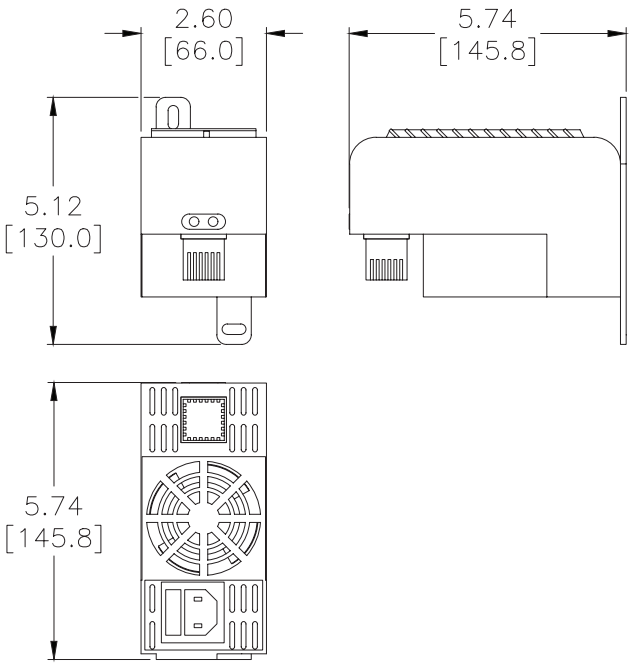
1000W Compact PTC Fan Heaters

Dimensions

Compact PTC Fan Heaters



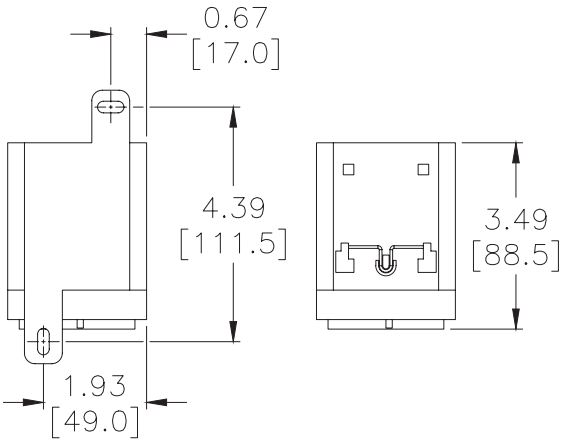
Fan Heaters with Integrated Thermostat



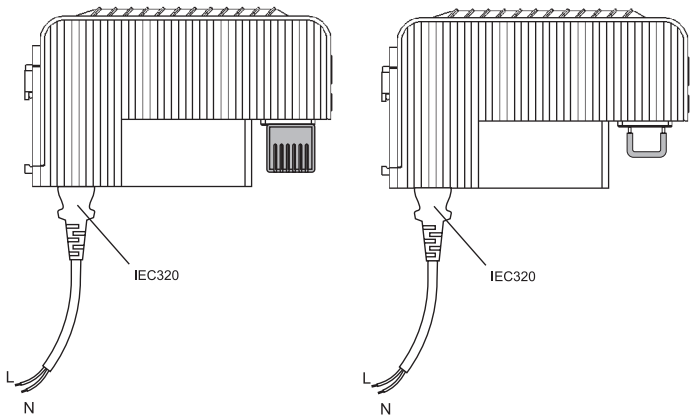
View: back side

Panel Mount

DIN Rail Mount



Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

1200W PTC Fan Heaters



Foot Mounted PTC Fan Heaters



Panel or DIN Rail Mounted PTC Fan Heaters

Applications

These compact high-performance PTC fan heaters are designed to prevent formation of condensation and provide an evenly distributed interior air temperature in enclosures. These fan heaters were designed as stationary units for installation on the bottom of enclosures.

Features

- Compact design
- Built-in overheat protection
- Double insulated plastic housing
- Integrated adjustable thermostat

1200W PTC Fan Heaters Specifications	
Heating Element	PTC resistor – temperature limiting
Overheat Protection	Built-in temperature limiter
Axial Fan, Ball Bearing	Service life 50,000h at 77°F [25°C]
Connection	2-pole terminal with strain relief 16 AWG [1.5mm²] max. solid wire or stranded wire with wire end ferrules,0.8 N·m max.clamping torque
Housing	Plastic, UL 94V-0, black
Mounting - Footed	M5 screws (not included)
Mounting - Panel or DIN Rail	Clip for 35mm DIN rail, EN 60715 or M6 screws (not included)
Mounting Position	Horizontal
Recommended Mounting Distance	Sides:1.97in [50mm] Bottom: 0.91in [23.1mm] Above: 3.94in [100mm]
Operating / Storage Temperature	-49 to 158°F [-45 to 70°C]
Operating / Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	II (double insulated)
Protection Type	IP20
Approvals	CE, UL Recognized File No. E234324 and E150057, RoHS 2 compliant

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.automationdirect.com

1200W Foot Mounted PTC Fan Heaters

Part Number	*Price*	*Heating Capacity[1]*	*Operating Voltage*	*Max. current (inrush)*	*Setting Range[2]*	*Air flow,free blowing*	*Weight (approx.)*
030609-00	$00acs:	1200W	120V AC, 50/60 Hz	16.0 A	32 to 140°F	94 cfm [160 m³/h]	41.6 oz [1179g]
030600-00	$;00,zh:		230V AC, 50/60 Hz	13.0 A	0 to 60°C		

Notes: [1] At 68°F [20°C] ambient temperature
[2] Switching difference 12.6 °F ± 7°F tolerance [7K ± 4K]

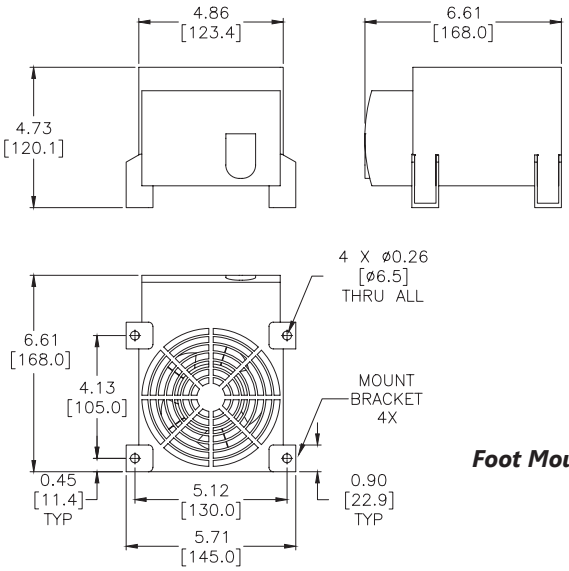
1200W Panel or DIN Rail Mounted PTC Fan Heaters

Part Number	*Price*	*Heating Capacity[1]*	*Max. Current (Inrush)*	*Operating Voltage*	*Setting Range[2]*	*Air flow,free blowing*	*Weight (approx.)*
130609-00	$;00ac[:	1200W	16.0 A	120V AC, 50/60 Hz	32 to 140°F	94 cfm[160 m³/h]	41.6 oz [1179g]
130600-00	$;-00,zi:		13.0 A	230V AC, 50/60 Hz	0 to 60°C		

Notes: [1] At 68°F [20°C] ambient temperature
[2] Switching difference 12.6 °F ± 7°F tolerance [7K ± 4K]

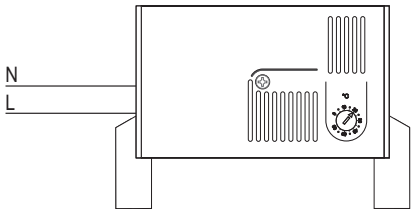
1200W PTC Fan Heaters

Dimensions



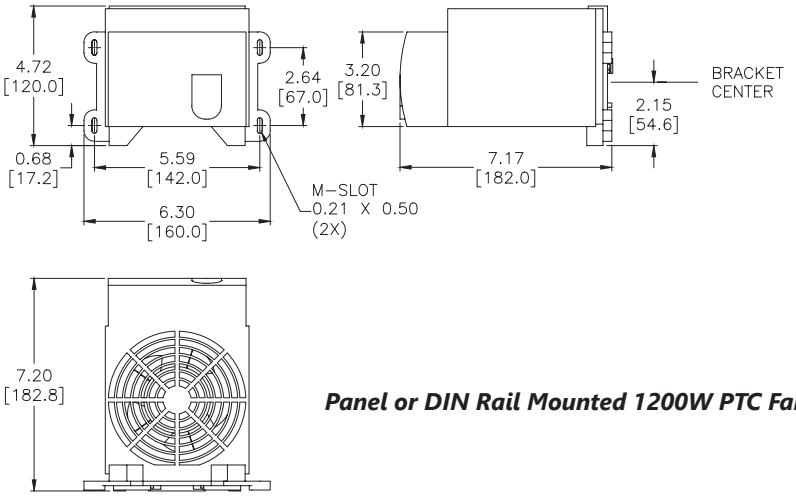
Foot Mounted 1200W PTC Fan Heaters

Wiring Diagram



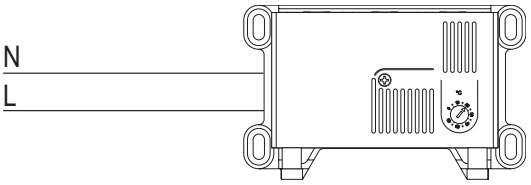
Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.

Dimensions



Panel or DIN Rail Mounted 1200W PTC Fan Heaters

Wiring Diagram



Note: When wiring 230 volt units for North American installations “L” (line) and “N” (neutral) will be used as”L1” (line1) “L2” (line2) respectively with no neutral connection.