Sinus Jevi (Explosion-Proof) Condens Heaters

Heating elements for dehumidification of sealed switchboards and control cabinets.

Due to temperature limitations on e.g. print and plastic cabinets it is important to use a heating element with a large surface and thus a low surface temperature. The condens heater is designed to meet these properties.



Anti-Condensation Heaters

Heating elements for dehumidification of sealed switchboards and control cabinets.

Due to temperature limitations on e.g. print and plastic cabinets it is important to use a heating element with a large surface and thus a low surface temperature. The condens heater is designed to meet these properties. The temperature limit (appr. 65°C) is integrated into the construction and the small physical measurements enables installation in most cabinets and switchboards.

The cooling fin profile has an optimal surface in relation to heat loss in circulation airflow. The element is made of black anodized aluminium which optimises heat conduction and emission.

CONSTRUCTION

The cooling fin profile has an optimal surface in relation to heat loss in circulating airflow. The element is made of black anodized aluminium which optimises heat conduction and emission.

The anti-condensation heater is supplied with temperature limit or as a selflimiting construction where a PTC element supplies the profiles with power according to the surrounding temperature.

The small cabinet heating element is without thermostat and casted in silicone rubber. The element is supplied with tape for attachment onto the cabinet. Can be used in places where the available space is very limited. the element can be bent with a min. radius of 15 mm.

TECHNICAL SPECIFICATIONS

INSTALLATION

The anti-condensation heater should always be mounted with the cooling ribs in vertical position. The best circulation is achieved by placing the heating element at the lower part of the cabinet.

Due to the element's low surface temperature, the position in relation to other components in the cabinet is not critical. Although it is recommended to maintain 5 cm free space on the sides and approx. 3 cm free space to the bottom due to air circulation.



A064 090 021

Туре	Power	Voltage	Length x Width x Height	Proofing	Article number	Profile
OHMSK	9 Watt	230 Volt	100 x 30 x 8 mm	IP44	A062 010 009	Silicone
OHMSK	70 Watt	230 Volt	142 x 72 x 57 mm	IP55	A064 090 070	
OHMSK	160 Watt	230 Volt	250 x 116 x 33 mm	IP55	A062 010 160	_\\\\\\\\\
PTC	15 Watt	110-240 Volt	75 x 72 x 52 mm	IP55	A063 090 015	*
PTC	15 Watt	12-48 Volt	75 x 72 x 52 mm	IP55	A063 090 016	
PTC	20 Watt	220-440 Volt	100 x 116 x 33 mm	IP55	A064 090 021	
PTC	40 Watt	220-440 Volt	250 x 116 x 33 mm	IP55	A064 090 041	
PTC	20 Watt	110-240 Volt	100 x 116 x 33 mm	IP55	A064 090 022	
PTC	40 Watt	110-240 Volt	250 x 116 x 33 mm	IP55	A064 090 042	
PTC	20 Watt	12-48 Volt	100 x 116 x 33 mm	IP55	A064 090 023	
PTC	40 Watt	12-48 Volt	250 x 116 x 33 mm	IP55	A064 090 043	 _ ++





A062 010 009

Anti-Condensation heater type SEK

APPLICATION

° To prevent condensation inside switch and instrument cabinets;

- ° To keep the cabinets frost-free;
- ^o To maintain a constant temperature inside the cabinet, independent of the weather's influence. The different models can be supplied self-adjusting or with built-in or surfacemounted thermostats.

In order to keep switch cabinets free of condensation, the following guidelines are employed:

- Switch cabinet for indoor use:
- 30 60 Watt per m³ cabinet volume.
- Switch cabinet for outdoor use:
- 60 100 Watt per m³ cabinet volume
- Switch cabinet for outdoor use in extreme circumstances: 100 150 Watt per m³ cabinet volume.

In extraordinary cases, we recommend that you ask for advice.

CONSTRUCTION

The connecting voltage is 230 Volt.

INSTALLATION

Mounting depends on the type. Because of inductive radiation, some types of cabinet heaters must be mounted at least 40 mm away from sensitive equipment or wiring. To make full use of the heat-emission from the cabinet heaters, it is important to place the heating element as low as possible in the cabinet. In case of wide cabinets, it is advisable to place more and/or longer elements for optimal heat distribution. In larger cabinets, it is sometimes advisable to install a fan.



TECHNICAL SPECIFICATIONS					
Туре	Power	Voltage	Length x Width	Material	Article number
SEK 25	25 Watt	230 Volt	100 x 40 mm	Mica	A060 110 025
				·	

Anti-Condensation heater type SHZ

The cabinet heaters type SHZ are especially designed for application where a high output is required. The heaters are provided with a surface-mounted adjustable room-thermostat, range 5° C - 30° C, and 500 mm long connection lead. The SHZ cabinet heater is also available without thermostat. In that case, the heater has to be controlled by an external control thermostat.

Proofing: IP65 (IP30 when thermostat is mounted).



TECHNICAL SPECIFICATIONS						
Туре	Power	Voltage	Length x Width	Proofing	Material	Article number
SHZ 250	250 Watt	230 Volt	330 x 165 mm	IP30	Galvanised steel	A061 210 250
SHZ 500	500 Watt	230 Volt	580 x 165 mm	IP30	Galvanised steel	A061 310 500

SINUS JEViΩ

Anti-Condensation heater type GSM

APPLICATION

Direct Heaters for non-hazardous (safe area) locations, designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Cameo Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Cameo Space Heaters are designed to heat the air inside an enclosure and indirectly the installed equipment. If properly selected for freeze protection, no thermostat will be needed. In other situations, if the equipment may not exceed a maximum temperature value, you can add one of our thermostats for non-hazardous areas. Do not cover the fins to guarantee free convection.

TECHNICAL DATA

Electrical cable: 3 x 1 mm² Material cable: braided silicone (standard), optional: non braided

Standard length:

Weight: **Overall dimensions:**

black anodised aluminium. 110/240 Volt -60°C... +90°C

appr. 1 mtr.

appr. 1400 gr.

other lengths optional, on request

164 x 54 x 54 mm (LxWxH)Material:



Туре Article number Incl. hexagonal spacers GSM-1A Appr. 115°C surface temperature* 250-25 Watt 925 101 000A 925 101 001A GSM-2A Appr. 105°C surface temperature* 250-25 Watt 925 102 000A 925 102 001A GSM-3A Appr. 90°C surface temperature* 250-25 Watt 925 103 000A 925 103 001A GSM-4A Appr. 70°C surface temperature* 925 104 000A 925 104 001A 250-25 Wat **High power model** GSM-0AHP Appr. 130°C surface temperature* 500-50 Watt 925 109 000A 925 109 001A

* These temperatures are measured at 20°C ambient temperature

Also mounting brackets available for this type

Anti-Condensation heater type GSMLP APPLICATION

Direct Heaters for non-hazardous (safe area) locations, designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Cameo Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Cameo Space Heaters are designed to heat the air inside an enclosure and indirectly the installed equipment. If properly selected for freeze protection, no thermostat will be needed. In other situations, if the equipment may not exceed a maximum temperature value, you can add one of our thermostats for non-hazardous areas. Do not cover the fins to guarantee free convection.

TECHNICAL DATA

Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard),
	optional: non braided

Туре Article number Incl. hexagonal spacers GSMLP-1A Appr. 115°C surface temperature* 100-10 Watt 925 111 000A 925 111 001A GSMLP-2A Appr. 105°C surface temperature* 925 112 000A 925 112 001A 100-10 Watt GSMLP-3A Appr. 90°C surface temperature* 100-10 Watt 925 113 000A 925 113 001A GSMLP-4A 925 114 001A Appr. 70°C surface temperature* 100-10 Wat 925 114 000A High power model GSMLP-0AHP Appr. 130°C surface temperature* 200-20 Watt 925 119 000A 925 119 001A These temperatures are measured at 20°C ambient temperature

SINUS JEVI Ω

Standard length:

Weight: **Overall dimensions:** Material: Voltage AC/DC: Ambient temp. range: appr. 1 mtr. other lengths optional, on request appr. 1400 gr. 100 x 54 x 54 mm (LxWxH) black anodised aluminium. 110/240 Volt -60°C... +90°C



Voltage AC/DC: Ambient temp. range:

Anti-Condensation Direct heater type GCT

APPLICATION

Direct Heaters for non-hazardous (safe area) locations, designed for: freeze protection, anti-condensation and temperature maintenance.

DESCRIPTION

All Cameo Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Cameo Direct-Heaters are designed to heat air inside an enclosure and indirectly the installed equipment. If properly selected for freeze protection, no thermostat will be needed. In other situations, if the equipment may not exceed a maximum temperature value, you can add one of our thermostats for non-hazardous areas.

TECHNICAL DATA

Electrical cable: Material cable: 3 x 1 mm² braided silicone (standard), optional: non braided

			Article number	Incl. hexagonal spacers
Т3	Appr. 115°C surface temperature*	250-25 Watt	925 161 000A	925 161 001A
T4	Appr. 105°C surface temperature*	250-25 Watt	925 162 000A	925 162 001A
T4	Appr. 90°C surface temperature*	250-25 Watt	925 163 000A	925 163 001A
T4	Appr. 70°C surface temperature*	250-25 Watt	925 164 000A	925 164 001A
	T3 T4 T4 T4	 T3 Appr. 115°C surface temperature* T4 Appr. 105°C surface temperature* T4 Appr. 90°C surface temperature* T4 Appr. 70°C surface temperature* 	T3Appr. 115°C surface temperature*250-25 WattT4Appr. 105°C surface temperature*250-25 WattT4Appr. 90°C surface temperature*250-25 WattT4Appr. 70°C surface temperature*250-25 Watt	Appr. 115°C surface temperature* 250-25 Watt 925 161 000A T4 Appr. 105°C surface temperature* 250-25 Watt 925 162 000A T4 Appr. 90°C surface temperature* 250-25 Watt 925 163 000A T4 Appr. 90°C surface temperature* 250-25 Watt 925 163 000A T4 Appr. 70°C surface temperature* 250-25 Watt 925 164 000A

* These temperatures are measured at 20°C ambient temperature

This type is also available in stainless steel

Anti-Condensation Direct heater type GLP

APPLICATION

Direct Heaters for non-hazardous (safe area) locations, designed for: freeze protection, anti-condensation and temperature maintenance.

DESCRIPTION

All Cameo Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Cameo Direct-Heaters are designed to heat air inside an enclosure and indirectly the installed equipment. If properly selected for freeze protection, no thermostat will be needed. In other situations, if the equipment may not exceed a maximum temperature value, you can add one of our thermostats for non-hazardous areas.

TECHNICAL DATA

Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard),
	optional: non braided

Standard length:

Weight: Overall dimensions: Material: Voltage AC/DC: Ambient temp. range: appr. 1 mtr. other lengths optional, on request appr. 600 gr. 78 x 30 x 34 mm (LxWxH) black anodised aluminium. 110/240 Volt -60°C... +90°C



Туре				Article number	Incl. hexagonal spacers
GLP-1A	Т3	Appr. 115°C surface temperature*	100-10 Watt	925 141 000A	925 141 001A
GLP-2A	T4	Appr. 105°C surface temperature*	100-10 Watt	925 142 000A	925 142 001A
GLP-3A	T4	Appr. 90°C surface temperature*	100-10 Watt	925 143 000A	925 143 001A
GLP-4A	T4	Appr. 70°C surface temperature*	100-10 Watt	925 144 000A	925 144 001A

* These temperatures are measured at 20°C ambient temperature

Standard length:

Weight: Overall dimensions: Material: Voltage AC/DC: Ambient temp. range: appr. 1 mtr. other lengths optional, on request appr. 600 gr. 88 x 70 x 35 mm (LxWxH) black anodised aluminium. 110/240 Volt -60°C... +90°C



Thermostat type Fix-Therm 96 GTH

APPLICATION

For non-hazardous areas is the Fix-Therm 96 GTH thermostat very suitable. Often used as maximum thermostat in instrumentation cabinets with space heating, to protect the equipment from overheating, or as a minimum thermostat with space heating to protect from freezing.

TECHNICAL DATA

Article number: Setpoint: Housing: Current/Voltage:

Cable:

Weight:

Switch:

Hysteresis:

Material cable:

Standard length:

Overall dimensions:

Set point tolerance:

925 000 100A from 10°C up to 130°C Anodised aluminium housing (stainless steel housing available) 6A / 240 VAC Temperature classification: T6 and T4 3 x 0.75 mm² silicone braided cable, optional: non braided cable. appr. 1 mtr. other lengths optional. 30 x 58 mm (ØxH) appr. 160 gr. SPST +/- 3°C appr. 2°C



Mounting bracket: available (B)

RANGE Aluminium: TH-10/5 - going up with 5°C setpoints e.g. 10/5 - 15/10 - 20/15 etc. up to 130°C maximum.

Explosion-Proof Space Heater type SM

APPLICATION

Space Heaters for hazardous locations, this compact model is designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Smart Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Smart Space Heaters are designed to heat the air inside an enclosure. The cabinet heater can be controlled by our (ex) room thermostats. Do not cover the fins to guarantee free convection.

TECHNICAL DATA

Power consumption:	250 - 25 Watt or 500-50 Watt
Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard), optional: non braided cable

appr. 1 mtr.

Standard length:

Other lengths optional, on request

Weight: Overall dimensions: Material: Ex protection class:

Certification: Protection degree: Voltage AC/DC: Ambient temp. range: appr. 350 gr. 164 x 54 x 54 mm black anodised aluminium II2G Ex d IIC T3 or T4 II2D Ex tD A21 IP66 T135°C/200°C KEMA 01ATEX2124X IP66 110/240 -60°C... + 90°C



Type Article number Incl. hexagonal spacers SM-1A T3 Appr. 115°C surface temperature* 250-25 Watt 925 201 000A 925 201 001A SM-2A Т4 Appr. 105°C surface temperature* 250-25 Watt 925 202 000A 925 202 001A SM-3A Τ4 Appr. 90°C surface temperature* 250-25 Watt 925 203 000A 925 203 001A Τ4 SM-4A Appr. 70°C surface temperature* 250-25 Watt 925 204 000A 925 204 001A High power model SM-0AHP ТЗ Appr. 130°C surface temperature* 500-50 Watt 925 209 000A 925 209 001A

* These temperatures are measured at 20°C ambient temperature

Explosion-Proof Space Heater type SMLP

APPLICATION

Space Heaters for hazardous locations, this compact model is designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Smart Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Smart Space Heaters are designed to heat the air inside an enclosure. The cabinet heater can be controlled by our (ex) room thermostats. Do not cover the fins to guarantee free convection.

TECHNICAL DATA

Power consumption:	100-10 Watt or 200-20 Watt
Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard), optional: non braided cable
Standard length:	appr. 1 mtr.
	Other lengths optional, on request

Weight: Overall dimensions: Material: Ex protection class:

Certification: Protection degree: Voltage AC/DC: Ambient temp. range: appr. 350 gr. 100 x 54 x 54 black anodised aluminium II2G Ex d IIC T3 or T4 II2D Ex tD A21 IP66 T135°C/200°C KEMA 01ATEX2124X IP66 110/240 -60°C... + 90°C



				1	
Туре				Article number	Incl. hexagonal spacers
SMLP-1A	Т3	Appr. 115°C surface temperature*	100-10 Watt	925 211 000A	925 211 001A
SMLP-2A	T4	Appr. 105°C surface temperature*	100-10 Watt	925 212 000A	925 212 001A
SMLP-3A	T4	Appr. 90°C surface temperature*	100-10 Watt	925 213 000A	925 213 001A
SMLP-4A	T4	Appr. 70°C surface temperature*	100-10 Watt	925 214 000A	925 214 001A
High power r	nodel				
SMLP-0AHP	Т3	Appr. 130°C surface temperature*	200-20 Watt	925 219 000A	925 219 001A
* These tempe	rature	s are measured at 20°C ambient temp	erature		·

Explosion-Proof Space Heater type SP APPLICATION

Direct Heaters for hazardous locations, designed for direct mounting onto e.g. manufolds etc. Used for anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Smart Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Cameo Direct Heaters are designed to heat the air inside an enclosure and indirectly the installed equipment. If properly selected for freeze protection, no thermostat will be needed. In other situations, if the equipment may not exceed a maximum temperature value, you can add our Fix-Therm96 thermostat as a maximum temperature protection, in the system When required in other applications, e.q.

analyzers, it is normal practice to use our Direct Heaters in combination with our Fix Therm96 thermostats (range from 10°C up to 130°C).

Do not cover the fins to guarantee free convection.

TECHNICAL DATA

Power consumption: 250-25 Watt or 500-50 Watt Material cable:

Standard length:

Overall dimensions: Material: Ex protection class:

Certification: Protection dearee: Voltage AC/DC: Ambient temp. range:

Electrical cable:

Material cable:

Standard length:

Material:

Certification:

Voltage AC/DC:

Overall dimensions:

Ex protection class:

Protection degree:

Ambient temp. range:

braided silicone (standard), optional: non braided cable appr. 1 mtr. Other lengths optional, on request 165 x 164 x 60 mm black anodised aluminium II2G Ex d IIC T3 or T4 II2D Ex tD A21 IP66 T135°C/200°C KEMA 01ATEX2124X IP66 110/240 -60°C... + 90°C



3 x 1 mm²

appr. 1 mtr.

IP66

110/240

-60°C... + 90°C

164 x 100 x 60 mm

II2G Ex d IIC T3 or T4

KEMA 01ATEX2124X

braided silicone (standard),

optional: non braided cable

black anodised aluminium

Other lengths optional, on request

II2D Ex tD A21 IP66 T135°C/200°C

Electrical cable	e:	3 X 1 mm²			
Туре				Article number	Incl. hexagonal spacers
SP-1A	Т3	Appr. 115°C surface temperature*	250-25 Watt	925 221 000A	925 221 001A
SP-2A	T4	Appr. 105°C surface temperature*	250-25 Watt	925 222 000A	925 222 001A
SP-3A	T4	Appr. 90°C surface temperature*	250-25 Watt	925 223 000A	925 223 001A
SP-4A	T4	Appr. 70°C surface temperature*	250-25 Watt	925 224 000A	925 224 001A
High power r	nodel				
SP-0AHP	Т3	Appr. 130°C surface temperature*	500-50 Watt	925 229 000A	925 229 001A

* These temperatures are measured at 20°C ambient temperature

Explosion-Proof Space Heater type LPAF APPLICATION

Direct Heaters for hazardous locations, designed for direct mounting onto e.g. manufolds etc. Used for anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Smart Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Cameo Direct Heaters are designed to heat the air inside an enclosure and indirectly the installed equipment. If properly selected for freeze protection, no thermostat will be needed. In other situations, if the equipment may not exceed a maximum temperature value, you can add our

Fix-Therm96 thermostat as a maximum temperature protection, in the system When required in other applications, e.g. analyzers, it is normal practice to use our Direct Heaters in combination with our Fix Therm96 thermostats (range from 10°C up to 130°C).

100-10 Watt

Do not cover the fins to guarantee free convection.

TECHNICAL DATA

Power consumption:

Power consu	Imption:	100-10 Watt		4	Type LPAF
Туре				Article number	Incl. hexagonal spacers
LPAF-1A	Т3	Appr. 115°C surface temperature*	100-10 Watt	925 231 000A	925 231 001A
LPAF-2A	T4	Appr. 105°C surface temperature*	100-10 Watt	925 232 000A	925 232 001A
LPAF-3A	T4	Appr. 90°C surface temperature*	100-10 Watt	925 233 000A	925 233 001A
LPAF-4A	T4	Appr. 70°C surface temperature*	100-10 Watt	925 234 000A	925 234 001A
* These temp	peratures	s are measured at 20°C ambient temp	erature		

SINUS JEVI Ω

Explosion-Proof Direct Heater type LP(S) APPLICATION

Direct Heaters for hazardous locations, this model is designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Direct Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Direct Heaters are designed to heat the installed equipment. If properly selected for freeze protection, no thermostat will be needed.

Alternative 316 Stainless Steel heaters can be delivered for the 100-10 Watt range.

Also possible is an aluminium body with four holes drilled through, for easy mounting.

TECHNICAL DATA

Power consumption:	100 - 10 Watt or 200-20 Watt
Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard),
	optional: non braided cable
Standard length:	appr. 1 mtr.
	Other lengths optional, on request
Weight:	appr. 350 gr. (Stainless Steel 360 gr.)
Overall dimensions:	78 x 30 x 34 mm
Material:	black anodised aluminium

Ex protection class:

Certification: Protection degree: Voltage AC/DC: Ambient temp, range: (or Stainless Steel) II2G Ex d IIC T3 or T4 II2D Ex tD A21 IP66 T135°C/200°C KEMA 01ATEX2124X IP66 110/240 -60°C... + 90°C

Additional Technical data for the High Power model LP-0AHP

Power: Overall dimensions: Material: All other data:

200-20 Watt 88x36x36 mm black anodized aluminium nly the same as the low power models



Туре				Article number	Incl. hexagonal spacers
LP-1A	Т3	Appr. 115°C surface temperature*	100-10 Watt	925 241 000A	925 241 001A
LP-2A	T4	Appr. 105°C surface temperature*	100-10 Watt	925 242 000A	925 242 001A
LP-3A	T4	Appr. 90°C surface temperature*	100-10 Watt	925 243 000A	925 243 001A
LP-4A	T4	Appr. 70°C surface temperature*	100-10 Watt	925 244 000A	925 244 001A
High power n	nodel				
LP-0AHP	Т3	Appr. 130°C surface temperature*	200-20 Watt	925 249 000A	925 249 001A
Type (Stainle	ss ste	eel)		Article number	Incl. hexagonal spacers
Type (Stainle	ss ste T3	eel) Appr. 115°C surface temperature*	100-10 Watt	Article number 925 251 000A	Incl. hexagonal spacers 925 251 001A
Type (Stainle LP-1AS LP-2AS	T3 T4	Appr. 115°C surface temperature* Appr. 105°C surface temperature*	100-10 Watt 100-10 Watt	Article number 925 251 000A 925 252 000A	Incl. hexagonal spacers 925 251 001A 925 252 001A
Type (Stainle LP-1AS LP-2AS LP-3AS	ss ste T3 T4 T4	Appr. 115°C surface temperature* Appr. 105°C surface temperature* Appr. 90°C surface temperature*	100-10 Watt 100-10 Watt 100-10 Watt	Article number 925 251 000A 925 252 000A 925 253 000A	Incl. hexagonal spacers 925 251 001A 925 252 001A 925 253 001A
Type (Stainle LP-1AS LP-2AS LP-3AS LP-4AS	ss sto T3 T4 T4 T4 T4	Appr. 115°C surface temperature* Appr. 105°C surface temperature* Appr. 90°C surface temperature* Appr. 70°C surface temperature*	100-10 Watt 100-10 Watt 100-10 Watt 100-10 Watt	Article number 925 251 000A 925 252 000A 925 253 000A 925 254 000A	Incl. hexagonal spacers 925 251 001A 925 252 001A 925 253 001A 925 254 001A
Type (Stainle LP-1AS LP-2AS LP-3AS LP-4AS High power n	ss ste T3 T4 T4 T4 T4	Appr. 115°C surface temperature* Appr. 105°C surface temperature* Appr. 90°C surface temperature* Appr. 70°C surface temperature*	100-10 Watt 100-10 Watt 100-10 Watt 100-10 Watt	Article number 925 251 000A 925 252 000A 925 253 000A 925 254 000A	Incl. hexagonal spacers 925 251 001A 925 252 001A 925 253 001A 925 254 001A

* These temperatures are measured at 20°C ambient temperature

Also mounting brackets available for this type

Explosion-Proof Direct Heater type CT APPLICATION

Direct Heaters for hazardous locations, this model is designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Direct Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Direct Heaters are designed to heat the installed equipment. If properly selected for freeze protection, no thermostat will be needed.

Alternative 316 Stainless Steel heaters can be delivered for the 100-10 Watt range.

Also possible is an aluminium body with four holes drilled through, for easy mounting.

TECHNICAL DATA

Power consumption:	250-25 Watt
Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard),
	optional: non braided cable

Standard length:

Weight: Overall dimensions: Material: Ex protection class:

Certification: Protection degree: Voltage AC/DC: Ambient temp. range: appr. 1 mtr. Other lengths optional, on request appr. 550 gr. 88 x 70 x 35 mm black anodized aluminium II2G Ex d IIC T3 or T4 II2D Ex tD A21 IP66 T135°C/200°C KEMA 01ATEX2124X IP66 110/240 -60°C... + 90°C



Туре				Article number	Incl. hexagonal spacers
CT-1A	Т3	Appr. 115°C surface temperature*	250-25 Watt	925 261 000A	925 261 001A
CT-2A	T4	Appr. 105°C surface temperature*	250-25 Watt	925 262 000A	925 262 001A
CT-3A	T4	Appr. 90°C surface temperature*	250-25 Watt	925 263 000A	925 263 001A
CT-4A	T4	Appr. 70°C surface temperature*	250-25 Watt	925 264 000A	925 264 001A

* These temperatures are measured at 20°C ambient temperature

Explosion-Proof Direct Heater type CS APPLICATION

Direct Heaters for hazardous locations, this model is designed for: anticondensation, freeze protection and temperature maintenance.

DESCRIPTION

All Direct Heaters are designed around self-limiting heating elements. These semi-conductor elements are saving power consumption. Our Direct Heaters are designed to heat the installed equipment. If properly selected for freeze protection, no thermostat will be needed.

TECHNICAL DATA

Power consumption:	250-25 Watt
Electrical cable:	3 x 1 mm²
Material cable:	braided silicone (standard),
	optional: non braided cable
Standard length:	appr. 1 mtr.
	Other lengths optional, on request
Weight:	appr. 550 gr.
Overall dimensions:	85 x 65 x 28 mm

Туре **Article number** Incl. hexagonal spacers CS-1A Appr. 115°C surface temperature* 250-25 Watt 925 271 000A 925 271 001A T3 CS-2A Τ4 Appr. 105°C surface temperature* 250-25 Watt 925 272 000A 925 272 001A CS-3A Τ4 Appr. 90°C surface temperature* 250-25 Watt 925 273 001A 925 273 000A CS-4A Τ4 Appr. 70°C surface temperature* 250-25 Watt 925 274 000A 925 274 001A These temperatures are measured at 20°C ambient temperature

This type is also available in a general purpose

Material: Ex protection class:

Certification: Protection degree: Voltage AC/DC: Ambient temp. range: Stainless Steel II2G Ex d IIC T3 or T4 II2D Ex tD A21 IP66 T135°C/200°C KEMA 01ATEX2124X IP66 110/240 -60°C... + 90°C





Explosion-Proof Thermostat type Fix Therm96 APPLICATION

The Explosion-proof FixTherm96 thermostats are often used as maximum thermostat in instrumentation cabinets with space heating for temperature protection and to protect the equipment from overheating.

DESCRIPTION

The housing is made from anodized alumnium or stainless steel type 316 (on request). When required in other applications, e.g. analyzers, it is normal to practice to use our space heaters in combination with these FixTherm96 thermostats (range from 10°C up to 130°C). The FixTherm96 can also be used for cooling purposes e.g. FixTherm TH-10/5F (N.O. contact)

TECHNICAL DATA

Article number: Housing: Current / Voltage: Cable: Material cable: Standard length:

Weight:

925 000 200A Anodized aluminium or stainless steel 6A/240VAC 3x0.75mm² braided silicone (standard), optional: non braided appr. 1 mtr. Other lengths optional, on request appr. 160 gr.





Overall dimensions: Switch: Set-point tolerance: Hysteresis: Mounting bracket: Ambient temp. range: Ex protection class:

o.d. 30 mm x 58 mm length SPST +/- 3°C appr. 2°C available (B) -50°... +90°C II2 G Ex d IIC T6 or T4 II2 D Ex tD A21 IP66 T85°C or T 135°C KEMA 01ATEX2125X

Certificate:

RANGE

Aluminium: TH-10/5 - going up with 5°C setpoints e.g. 10/5 - 15/10 - 20/15 etc. up to 130°C maximum.

Stainless steel bodies: identical range.

Explosion-Proof Thermostat type ATH

Technical specifications

Type Material casing Setting range Switching power

Max. ambient temp. Dimensions Protection class Article number Weight Certificate : Ex Therm-AT : polyester : -20... +40°C : 1-2: AC 16(2,5)A 230V, 1-4: AC 6,3(2,5)A 230V : 40°C : 106 x 200 x 90 mm : IP65 : A300 105 011 : approx. 1200 gram : Ex II 2G Ex de IIC T6 Gb Ex II 2D Ex tb IIIC T130°C Db



Explosion-proof thermostat type EJB D8525

The explosion-proof room thermostat is suitable for gas group IIB with EN/IEC test certificate.

The explosion-proof room thermostat consists of a cast flame proof aluminium casing, fitted with 1 or 2 explosion-proof cable glands for armored cable with an outer diameter of 10.5 to 16 mm and an inner diameter of 7.5 to 11.9 mm. Cable gland M20x1.5 HAWKE type 501/453/O.

In the aluminium casing a capillary thermostat is built in, adjustable between 0 - 40°C. The sensor is mounted on the outside of the casing.

: 1 phase D8525

: 2 brass glands

: A300 204 030

Technical specifications

Supplied with Material Setting range Ambient temperature Hysteresis Switching power Sensor dimensions Protection class Article number

Туре Supplied with

Certficate:

EN 60097-1

ATEX - Ex II 2GD

Type

Material Setting range Ambient temperature Hysteresis Switching power Sensor dimensions Protection class Article number

(1 cable gland) : aluminium casing :0...+40°C :-25°C-+40°C : 1.5°C : max. 16A at 400 Volts AC : 147 x Ø6 mm : IP66 : A300 104 010 : 3 phase D8525 : 3 brass glands (2 cable glands) : aluminium casing :0...+40°C :-25°C - +40°C : 2°C : max. 3x400 Volts AC to 3x16A : 210 x Ø6 mm : IP66

Explosion-proof thermostat type EJB D8640

The explosion-proof room thermostat is suitable for gas group IIC with EN/IEC test certificate. This explosion-proof room thermostat consists of a steel or stainless steel casing.

Cable gland M20x1.5 HAWKE type 501/453/O.

The sensor is located in a perforated guard. The capillary thermostat is adjustable between 0 - 40°C.

Technical specifications

Гуре	: D8640 3 phase
Supplied with	: 2 brass cable glands
Vaterial	: steel casing
Setting range	: 0 +40°C
Ambient temperature	: -30°C - +50°C
Hysteresis	: 2°C
Switching power	: max. 3x400 Volts AC to 3x16A
Protection class	: IP66
Article number	: A301 204 030

Type Supplied with Material Setting range Ambient temperature Hysteresis Switching power Protection class Article number

: D8640 3 phase : 2 brass cable glands : stainless steel casing : 0... +40°C :-30°C-+50°C : 2°C : max. 3x400 Volts AC to 3x16A : IP66 : A301 204 030A

Certificate: ATEX - Ex II 2GD Ex d IIC T6 Gb - Ex tb IIIC T110°C Db EN/IEC 60079-1 EN/IEC 60079-31





103 mm NUMERIRES STOTED A SAUGIDAR 100 mm 225 mm

Ex de IIB T6 + H2 T6 Gb - Ex tb IIIC T85°C IP66

EN 60079-31

EJB D8525

Applications Sinus-Jevi space heaters are suitable for anticondensation, freeze protection and temperature maintenance.

Different applications can be:

- switch boards

s

- control cabinets
- tunnel fire systems
- heating of (very) small spaces













SINUS JEViΩ

Sinus is one of the pioneers in the field of explosion proof heating equipment, today we are still operating at the forefront. We manufacture according to ATEX as well as IECEx and EAC directives.

For the production of Ex-proof equipment a PQAN (Product Quality Assurance Notification) is issued by TUV-Nord. Our ISO-9001 and ISO-14001 systems are also monitored by this organisation.

