



CP SLIMTHERM D Electric Heater

1 Application

The SLIMTHERM electric heater has an exceptionally flat design and is to be used in hazardous areas where heating is necessary, but physical space is scarce.

One side of the heater is flat. Suitable to be attached directly to a flat surface which conducts heat well (metal). The other side of the heater is finned, optimized to heat the surrounding air.

2 Special Features & Advantages

- Exceptionally flat design (30 mm)

3 Description

SLIMTHERM heaters heat through its' finned side the air in the enclosure by convection and through its' flat side by conduction. A non-resettable temperature limiter built to ATEX design specifications is integrated in the core block, cutting off the power in case of a technical failure or excessive heating resulting from an external heat source. For this reason and for reasons of operational safety the heater must only be operated under conditions that ensure that the trip temperature of the limiter will not be exceeded: The ambient temperature in the enclosure must not exceed the maximum permissible values. This, in case of freeze protection heaters, will be guaranteed by the TS thermostat or, in case of heaters used for temperature maintenance, by the TS 40 protective thermostat. Therefore, a CP SLIMTHERM heater must have a TS thermostat.

For temperature maintenance, an additional external TAE thermostat must be connected in series and installed on the surface of the heater to enhance thermal coupling. Alternatively, a TC temperature controller can be used.

Ensure effective convection by observing the necessary overall clearance of 3 cm save the flat side of the heater. Take care not to cover the fins.

With regard to the residual current devices and insulation monitors, attention must be paid to DIN EN 60079-14:2014 and/or the operating instructions.

A temperature indicator shows potential problems and failures at an early stage (e.g. incorrect installation). Please check the application if more than 3 fields have irreversibly changed to black.



All INTERTEC explosion-proof heaters can also be supplied

- to North American NEC standard (CSA/ NRTL).
- in a less expensive, Non-explosion-proof design
- as Bi-Standard (see datasheet [HD508](#))



4 Explosion Protection

IEC Scheme Certificate	IECEX PTB 07.0052X
EC Examination certificate	PTB 02 ATEX 1041X
IEC Scheme Type of Protection	II 2G Ex db IIC T6, T5, T4, T3 II 2D Ex tb IIIC T85°C, T100°C, T135°C, T200°C

5 Technical Data

Ingress Protection	IP68
Operating temperature range	-60° to +180° C
Nominal voltage	230V AC
Connection cable	silicone cable, notch and oil resistant, 3x 1,5mm ² 8,1mm Ø
Width x Depth	206 x 30 mm
Material	seawater-proof aluminium, black anodized

6 Types (Other types upon request.)

6.1 for freeze protection

CP SLIMTHERM	DNA 75 T4	DLA 125 T3	DPA 100 T4	DPA 200 T3	DPA 250 T3
Temp. class	T4	T3	T4	T3	T3
Nom. Power	75 W	125 W	100 W	200 W	250 W
Height	155mm	105mm	225 mm		

6.2 for temperature maintenance to 40° C

CP SLIMTHERM	DLA 30 T3	DNA 50 T3	DNA 50 T4	DNA 75 T3	DNA 100 T3
Temp. class	T3	T3	T4	T3	T3
Nom. Power	30W/24V	50 W	50 W	75 W	100 W
Height	105 mm	155 mm			

7 Options

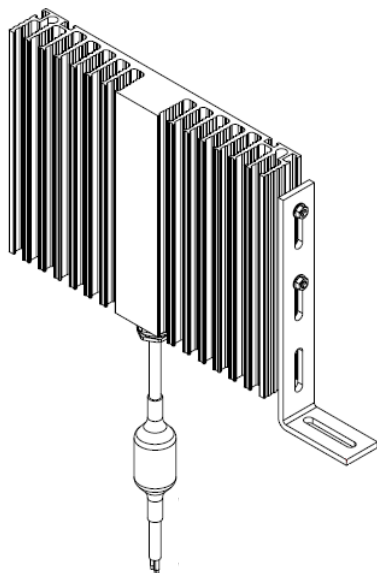
AM	Failure alarm opening at < 5 °C
3M	Connection cable 3 m long
TS	Thermostat in the cable

Not all options can be combined.

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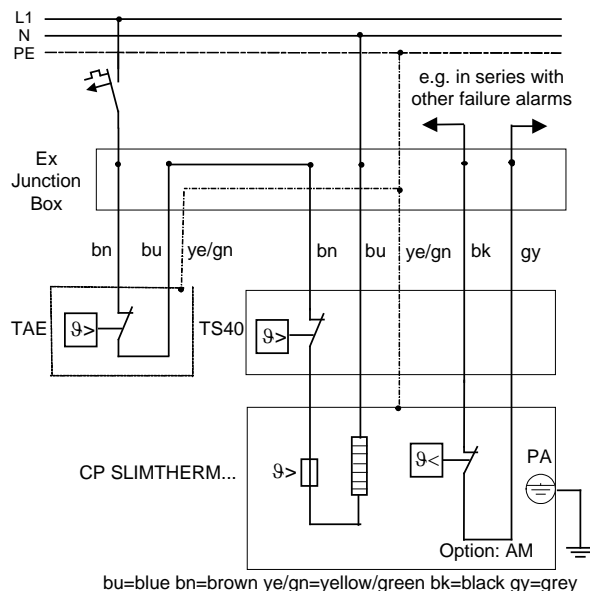


8 Dimensions



9 Electric wiring

9.1 CP SLIMTHERM...TS with TAE



9.2 CP SLIMTHERM...TS

