

# CP BLOCKTHERM DKA T3 BF



## 1 Application

The constant power electric heater is designed to be attached directly to manifolds, measuring instruments, control valves and similar equipment installed in hazardous areas. The flat side shall be attached to the object to be heated and it's heated by conduction. This is the easiest, safest and most economical method of freeze protection or temperature maintenance. The finned side of the heater, heats the surrounding air in the enclosure by convection.

## 2 Special Features & Advantages

- Energy saving
- Requires very little space

## 3 Description

CP BLOCKTHERM BF heats 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 TAI thermostat or, in case of heaters used for temperature maintenance, by the TAI 40 protective thermostat. Therefore, a CP BLOCKTHERM BF heater must have a TAI thermostat.

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.



## 4 Explosion Protection

EC Examination Certificate	PTB 02 ATEX 1041 X
IEC Scheme Certificate	IECEX PTB 07.0052X
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

Ingress Protection	IP68
Operating temp. range	-60°C to 180°C
Nominal voltage	230V AC (220-240 V AC)
Connection cable	silicone cable, notch and oil resistant 3x1,5mm <sup>2</sup> Ø8,8mm
Length of connection cable	1 m
Dimensions, (H x W x D)	90 x 95 x 30 mm
Material	seawater-proof aluminium, black anodized

## 5 Technical Data

CP BLOCKTHERM ...	DKA T3 30 BF 24V	DKA T3 35 BF	DKA T3 50 BF
Temperature Class	T3		
Voltage (Volt)	24	120	230
Nominal Power (Watt)	30	35	50

(Other types upon request)

All INTERTEC explosion-proof heaters can also be supplied

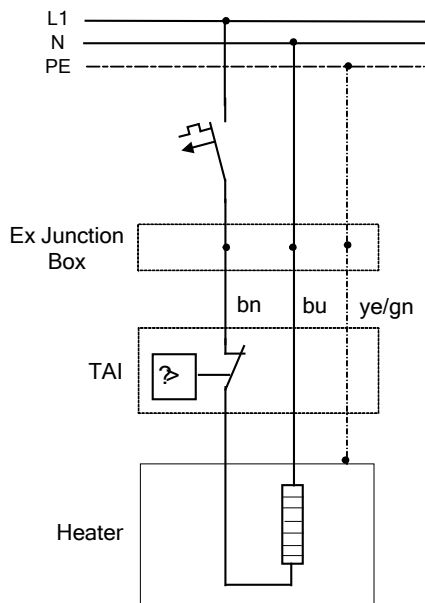
- to North American standard (CSA/NEC/NRTL)
- in a less expensive, Non-explosion-proof design
- as Bi-Standard (see datasheet [HD508](#))

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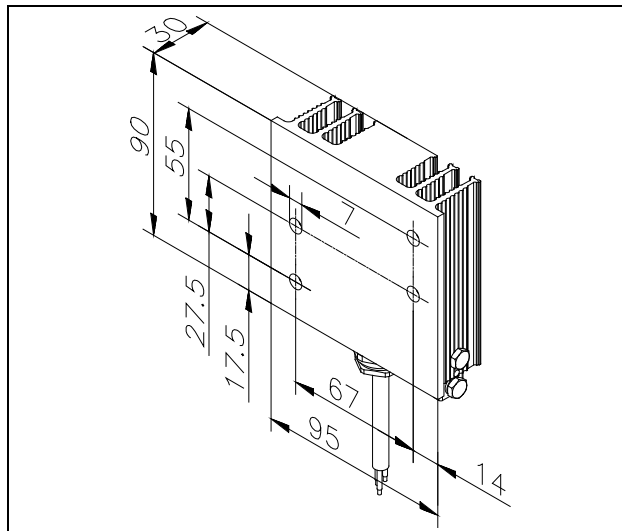


## 6 Electric Wiring

### 6.1 TAI thermostat



## 7 Dimensions



The block heater dissipates the heat by conduction. It should be mounted to a flat surface of a heat conducting material (e.g. metal) with the fins in an upright vertical position.

### 6.2 TAI and separate TAE AM thermostat

