



CP MICROTHERM DNA.....Electric heater



1 Application

Heating of instrument enclosures in hazardous areas, designed for

- freeze protection
- condensation protection
- vertical installation

• Features

- very slim heater body design
- vertical design allows for optimum installation adjacent to the instruments to be heated in the enclosure
- freeze-protection thermostat (TS) integrated as standard in the connection cable
- high heat output resulting from a special, black anodized aluminium profile construction

2 Description

The very versatile CP MICROTHERM line consists of electric heaters designed to heat the air in the enclosure by convection. Microtherm is the right choice of heater if the available space is not sufficient to install a larger model such as the CP MULTITHERM heater.

Wherever possible, a heater designed for temperature class T3 should be selected.

A temperature limiter is integrated in the heater that cuts off the power in case of a technical failure or excessive heating resulting from an external heat source. It should be noted that the temperature limiter must only be repaired in our factory. 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:

- Controllers such as TS, TAE or TC switch off the heater in case of high temperatures in the enclosure
- Ensure effective convection by observing the necessary clearances as per section 7.1.1 and 7.1.2 on the next page. Allow for good convection circulation in the enclosure and take care not to cover the fins.

With regard to the residual current devices and insulation monitors, attention must be paid to DIN EN 60079-14:2008, Section 7.4 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 northamerican standard (CSA/ NEC/ NRTL/ FM/ UL)
Ordering Example: CP MICROTHERM CNA 75 T3
- in a less expensive, Non-explosion-proof design
Ordering Example: CP MICROTHERM NNA 40
- as Bi-Standard (see datasheet HD508).



3 Explosion Protection

EC Examination Certificate	PTB 02 ATEX 1041 X
IEC Scheme Certificate	IECEx PTB 07.0052X
Marking	II 2 G Ex dm IIC T3,T4,T5,T6 II 2 D Ex tDmD A21 IP65 T135°C, T200°C

Ingress Protection	IP 68
Nominal voltage	230V AC (220-240 V AC)
Operating temperature range	-50°C bis 180°C
Connection cable	silicone cable, notch and oil resistant 3x1,5mm ² , Ø8,8mm
Length of connection cable	1 m
Dimensions (W x D x H)	50 x 50 x 155 mm
Material	seawater-proof aluminium, black anodized

4 Technical Data

CP MICROTHERM DNA	25 T4	40 T4	75 T3
Temperature class	T4	T4	T3
Nominal power [W]	25	40	75

(Other types upon request)

5 Options

TS	Room temp. controller for freeze protection
AM	Failure alarm opening at < 5 °C silicone cable, notch and oil resistant Connection cable 5x1,0 mm ² Ø8,5 mm
3M	Connection cable 3 m long
120 V	Nominal voltage 120 V AC
250 V	Nominal voltage 250 V AC (245-265 V AC)

Ordering example:

CP MICROTHERM DNA 75 T3 TS 3M



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6 Installation Position and Minimum Clearances

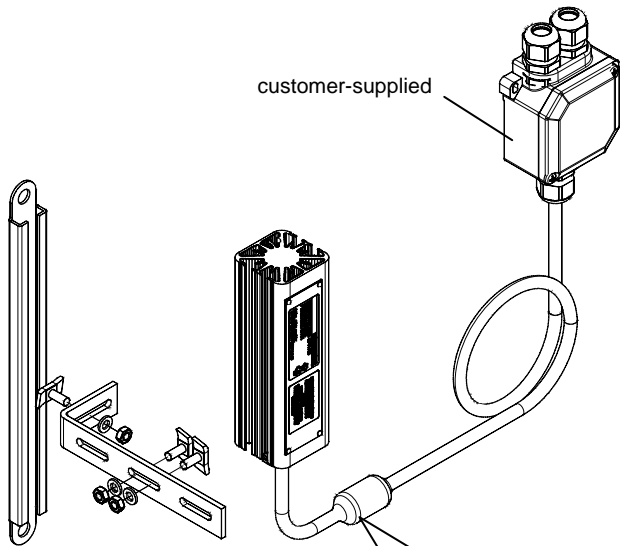
During installation, attention should be paid to the following:

- Follow the installation and operating instructions supplied with the MICROTHERM heater.
- The fins must be positioned vertically
- Please note minimum clearances to the enclosure, as per 7.1.1 and 7.1.2
- The label must be clearly legible

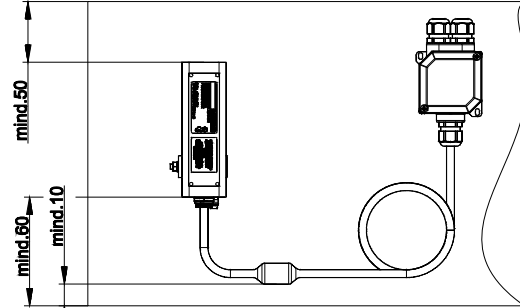
The INTERTEC universal mounting bracket supplied with the heater enables versatile use.

All crews and nuts are included with the heater.

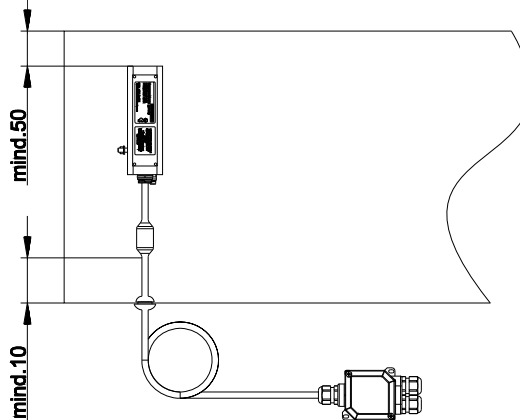
6.1 MICROTHERM TS



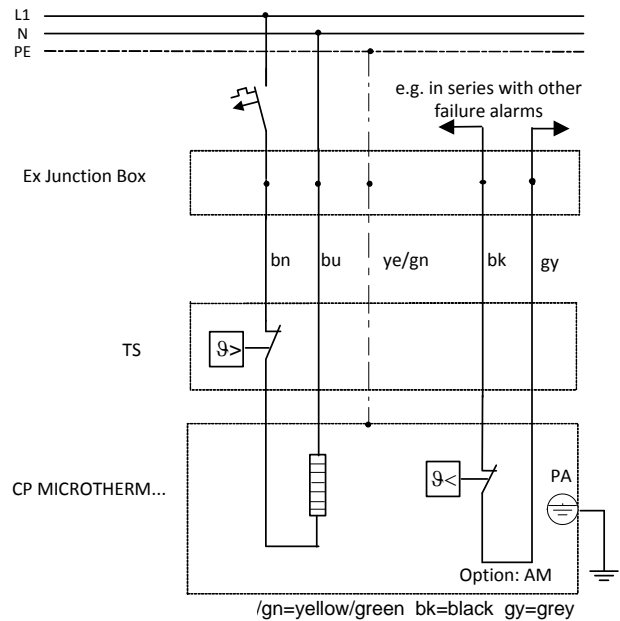
6.1.1 with customer-supplied internal junction box



6.1.2 with customer-supplied external junction box



7 Wiring Diagramme



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