



# SL BLOCKTHERM Self-limiting Block Heater



## 8 Temperature Limitation

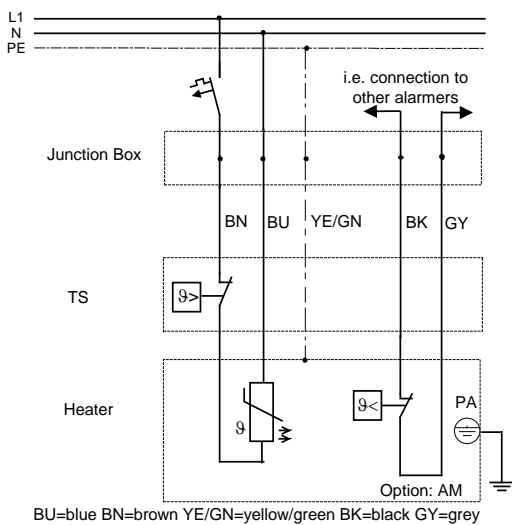
PTC-elements (Positive Temperature Coefficient) raise their electric resistance with rising temperature. High resistance means low heating power. The heating power gets very low at high temperatures so that the temperature cannot exceed the maximum temperature of the respective temperature class. The PTB Certificate of Conformity stipulates that the heat transfer coefficient of the surrounding enclosure must not be less than  $K=0,5 \text{ W/K}$ . All INTERTEC enclosures meet these requirements.

## 9 Supply Voltage

In addition to the above-mentioned temperature characteristics, the PTC-elements show a varistor effect. They control their resistance in accordance to the supply voltage. The nominal power supply voltage may be 110 V to 265 V with the same heater. The output may be a maximum of 15% higher than that shown in the diagramme overleaf.

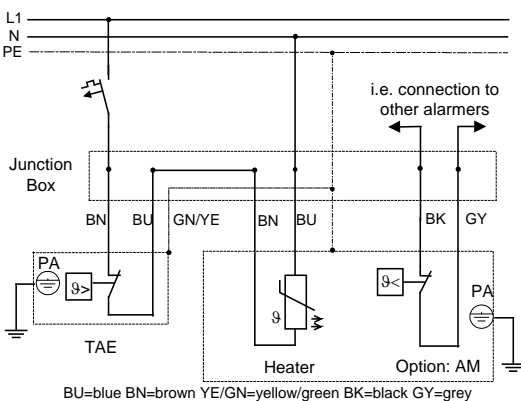
## 10 Electric Wiring

### 9.1 BLOCKTHERM with TS



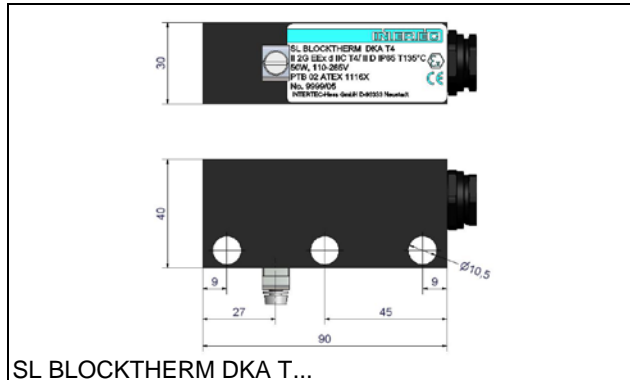
### 9.2 BLOCKTHERM with TAE

TAE see data sheet [HD223](#)

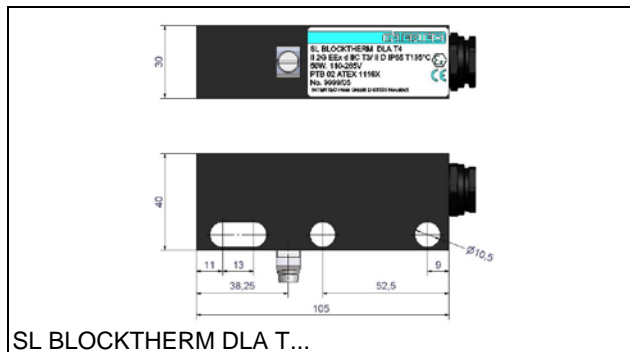


Connection cable Silflex-EWKF 3x1,5 mm<sup>2</sup>, 1m long. Other lengths available upon request (at an extra charge).

## 11 Dimensions

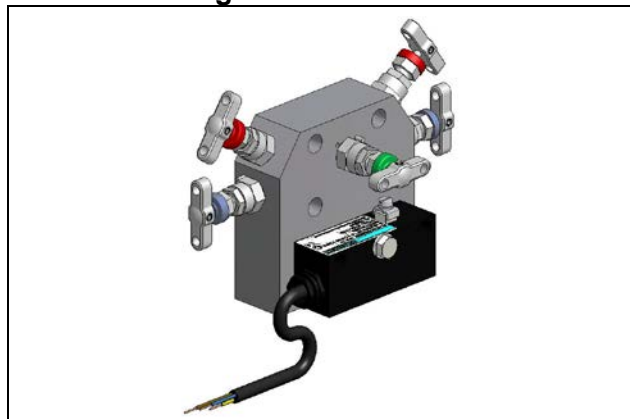


SL BLOCKTHERM DKA T...



SL BLOCKTHERM DLA T...

## 12 Mounting



The block heater dissipates the heat by conduction. It should be mounted to a flat surface of a heat conducting material (e.g. metal). One bolt is sufficient to mount the heater.

### Example:

The SL BLOCKTHERM DKA T4, which is attached to Fisher Rosemount 3051H Transmitter by means of an adapter block, guarantees freeze protection for the transmitter, manifold and impulse lines installed in an INTERTEC Instrument Enclosure at outside temperature as low as  $-25^{\circ}\text{C}$ , SL BLOCKTHERM DKA T3 even down to  $-45^{\circ}\text{C}$ .

