

## **Electrical connection:**

The sensor comes with a 5m connection cable as well as a programming cable. Supply and analog output are connected according to the diagram below:



Supply 24V AC/DC 1 = Brown + 2 = White -3 = Blue, DO, Alarm, PNP, 1A 4 = Black, AO, Control output, 4-20mA 5 = Gray, DI, Run in signal (5 to 24 VDC)

Pin 1 (brown) & Pin 2 (white): 24 V supply Pin 2 (brown) & Pin 4 (blue): 4-20 mA output



**HB Products** WE INCREASE UPTIME AND EFFICIENCY IN THE REFRIGERATION INDUSTRY

## **Quick Guide HBDF** Defrost Sensor **Defrost on demand**



For installation on evaporators:









1) Install the HBLC-Tool software on the computer. 2) Connect the USB/M12 cable to a PC's USB port. 3) Follow the Configuration Instruction above on the

1) Enable the zero calibration function and push on the button "Send Zero/Span values" to file the entered

The SPAN should be set to 30-60 pF. The optimal SPAN setting will be greatly influenced by the length of the wire and how it is mounted.

Sensor sensitivity depends on the SPAN setting. A lower SPAN setting

Push the button "Send Zero/Span values" to file the entered values. Disconnect the programming cable and install the sensor electronic.

If the output signal 4-20 mA shows 20 mA at limited ice thickness, the SPAN should be adjusted to a higher value (maximum 60).

The output signal from the sensor corresponds to the ice thickness build-up. 4 mA is equal to no ice build-up and 20 mA is equal to max ice build-up based on the programmed SPAN area.

Push the button "Send Zero/Span values" to file the entered values. Disconnect the programming cable and install the senor electronic.