

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:



Pin 5 & Pin 2: Calibration from main PLC. Activate 7 sec. Wait 2 sec and then activate 2 sec again.





Quick Guide HBDF Defrost Sensor Defrost on demand



For installation on evaporators:











1) Install the HBP Tool software on the computer. 2) Connect the USB/M12 cable to a PC's USB port. 3) Press scan for sensor and the HBDF tool opens up

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

The sensor can as well be calibrated with the digital

1) Activate the input signal in minimum 7 sec. 2) Wait 2 sec and then activate the signal once

The SPAN should be set to 180 pF. The optimal SPAN setting will be influenced by the length of the wire and how it is mounted. Start with

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.

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.

This example shows an actual value which correspond to an ice thickness of 2mm. We recommend defrosting by an ice thickness of 1