Data sheet: HBDF-mk2

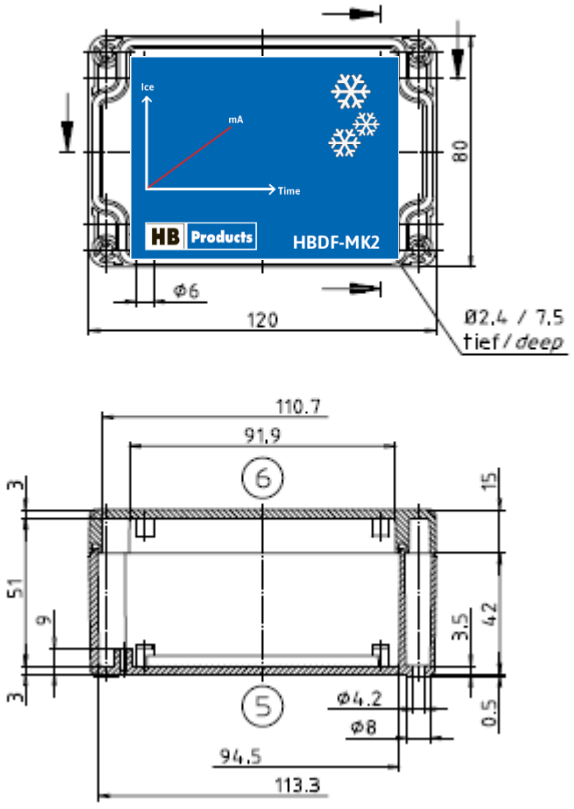
The Defrost Sensor measures the frost layer on the fins in an evaporator and this is normally used for controlling the defrosting. The output is either an analog 4-20 mA signal for control in a PLC/controller or digital output from relays based on settings in the control box.

The control box is installed on the evaporator frame and the measuring wire is installed between the fins where the frost builds up. This is typically on the air inlet side for overfed systems and for most applications 10 m wire is sufficient.

Power supply	
Voltage	24V AC/DC ± 10%
Max. possible resistance	500 ohm
Max. energy consumption	600 mA
Electrical connection	Screw terminal
Output	
Analog output	4-20 mA
Relay output AC max 240V	2 x 5A, NO/NC
Relay output 24V	2 x 3A, NO/NC
Communication	M12 plug for setup
Environmental conditions	
Ambient temperature	-60°C to 50°C (-76°F to 122°F) depending on version
Protection degree	IP65
Vibrations	IEC 68-2-6 (4g)
Mechanical specifications	
Wire length	3-30 m
Size	See the dimensional drawing on the next page
Material - mechanical part	AISI 304 / PTFE
Material - electronic part	Nylon 6 (PA)
Approvals	
EMC-Emission	EN 61000-3-2
EMC-Immunity	EN 61000-4-2
Configurations	
Configuration	HB Tool and a USB cable (option)
Scope of supply	
Package includes	Electronic box Measuring wire

	Grounding wire Temperature sensor Manual

Dimensional drawing



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