EFIT™ 850 ice and snow melting

Ground and/or roof systems (1 - 4 sensors)

Applications:
EFIT™ 850 is efficiently controlling ice and snow melting systems in:

• Driving areas
• Ramps
• Stairs
• Driveways

The EFIT™ 850 is the most optimal solution for keeping an area free of ice and snow. EFIT™ 850 acts on information received from the sensor(s) which register both temperature and moisture. EFIT™ 850 calculates the information and secures that the heat only will be turned on when the right combination of low temperature and a certain level of moisture are detected. This gives an energy saving system and reduces running costs.

If correctly adjusted, you can save 60% on ground systems and 40% on roof systems on operating costs compared with a simple air temperature thermostat.

Zone support saves energy. The EFIT 850 lets you divide your area into 2

zones, eg. a North and South side. In this way it is possible to save energy, when the South side is free of ice and snow faster because of the heat from the sun.
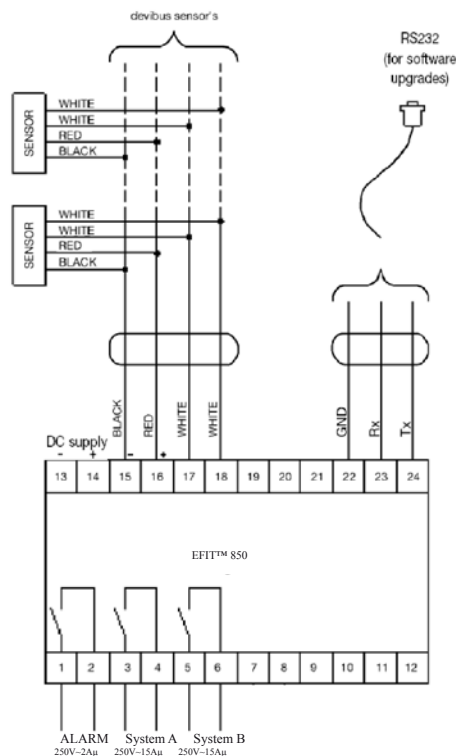
You can also prioritize between the zones, eg. if you have limited power output. This way one zones is made ice and snow free before focus is put on the other zone.

With the EFIT 850 you can make 2 zones with ground sensors, 2 zones with roof sensors, or 2 zones with both ground and roof sensor, making the products both match the needs of the residential and commercial applications.

400-610-5500

Technical Specification

Technical data	
Voltage: • EFIT™ 850 • Power supply	18-26 VDC 180-250 VAC, 50/60 Hz
Power consumption: • EFIT™ 850 • Roof sensor(s) • Ground sensor(s)	Max. 3 W Max. 8W (each) Max. 13W (each)
Relay load capability: • Resistive load Alarm relay • Resistive load System A relay • Resistive load System B relay • Inductive load each relay	230V ~ 2A 230V ~ 15A 230V ~ 15A 1A (power factor 0.3)
IP class: • EFIT™ 850 • Roof sensor(s) • Ground sensor(s)	IP 20 IP 67 IP 67
Ambient temperature: • EFIT™ 850 • Roof sensor(s) • Ground sensor(s)	-10°C to +40°C -50°C to +70°C -30°C to +70°C
Sensor type:	Devibus™ connected moisture sensor(s)
Indication:	2 x 16-character illuminated display Alarm light (red) Lit info key (yellow)
Measurements: • EFIT™ 850 • Roof sensor(s) • Ground sensor(s) • Tube ground sensor(s)	(Depth x Height x Width) 53 mm x 86 mm x 105 mm 15 mm x 23,5 mm x 216 mm D = 87 mm; height = 74 mm D = 93 mm; height = 98 mm

A – Wiring diagram

Danfoss Floor Heating Electrical
DEVI A/S

400-610-5500

www.bjht.com.cn

Functions:

• Multiple languages in illuminated display.

• Info-button for help/information.
The info-button will guide you through the menus and settings.

• View the actual temperature and moisture level measured by the sensors.

• Adjustable operation mode: Automatic, constant on, and constant off.

• Adjustable parameters: Melting temperature, standby temperature, moisture sensibility, post heating period.

• The Intelligent, digital sensors will reduce energy consumption and give an optimal protection. The sensors are easy to install and designed for rough weather and heavy traffic loads.

• Devibus™ enabled. Connect all sensors in parallel.

• Zone support combined system (2 systems in one) ground and roof

• 2 similar zones either ground or roof (eg. north/south) saving energy

• Prioritizing one zone over other eg. for installations with limited power allocation

• Fault finding programme. The EFIT™ 850 has a self diagnosing programme, which will detect faults and give an alarm.

• Alarm function. Blinking red light and a sound will indicate an alarm. Possibility of connecting external alarm.

• RS232 enabled. Connect the EFIT™ 850 to a computer when a software upgrade is available.