

Data Sheet

# Danfoss Link™ Hydronic Controller

## Application



Danfoss Link™ HC is a part of the Danfoss Link™, a programmable, wireless control system for heating systems in residential buildings.

The Danfoss Link™ HC allows control of hydronic floor heating systems. The system offers a wide range of extended functionalities for optimal comfort and energy saving, with individual room temperature control.

The Danfoss Link™ HC includes features like: 2-way wireless transmission, up to 5 or 10 short-circuit protected outputs for 24 V NC or NO actuators, relays for both pump and boiler control, selfdiagnosing program, contact for Away Function, heating/cooling function, regulation by ON/OFF or Pulse Width Modulation principles (PWM) etc.

The system can consist of up to three Danfoss Link™ HC, offering a possibility of up to 30 outputs for even larger systems. The Danfoss Link™ HC has easy connection directly to 230 V power supply without the need for further transforming, supplying all actuator outputs with 24 V.

Systems of up to three Danfoss Link™ HC can be accessed wirelessly by the Danfoss Link™ CC. The Danfoss Link™ CC offers a wide range of functionalities and features, like individual settings for each Danfoss Link™ HC output, override and locking of local room temperature settings, setback and period programming, system status etc.

### Features:

- 2-way wireless transmission at 868.2 MHz, for higher transmission certainty and direct link test option on each system component like room sensors, etc.
- 5 or 10 short-circuit protected outputs with LED indication.
- Outputs for 24 V NC or NO actuators.
- Valve motion for all outputs approx. 12 minutes every second week with no heat demand.
- Regulation by PWM (Pulse Width Modulation) principle.
- Input (ON/OFF) for heating/cooling.
- Input (ON/OFF) for Away Function. When the switch is closed (ON), the system overrides all room thermostat set points and change it to 15° C.
- Relay for pump control with automatic pump motion every third day for 1 min. to avoid damage during standby periods.
- Relay for boiler control, activated only at heat demand.
- Easy cable fixing at each actuator output for several cable types (squared or circular).
- Automatic self-diagnosis providing indication of several error possibilities like missing wireless connection or missing/non-functional actuator on output, etc.


## Ordering

Product	Type	Supply voltage	Output voltage	Code no.
Danfoss Link™ HC, 5 outputs	HC-5	230 V AC	24 V DC	<b>014G0103</b>
Danfoss Link™ HC, 10 outputs	HC-10			<b>014G0100</b>

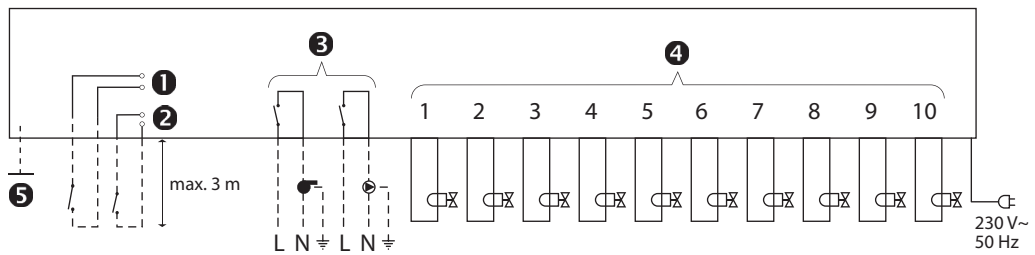
## Accessories

Product	Type	Code no.
External antenna, with 2 m cable	CF-EA	<b>088U0250</b>

### Technical specifications

Transmission frequency	868.42 MHz
Transmission range in normal constructions	(up to) 30 m
Transmission power	< 1 mW
Supply voltage	230 V AC
Actuator outputs	5 or 10 / 24 V DC
Max. continued output load (total)	35 VA
Relays	230 V AC/ 8 (2) A
Ambient temperature	0 - 50° C
IP class	30
ErP class	 (2%)
Mains cable	1.5 m
Weight	700 g
Dimensions (l x h x d) in mm	325 x 78 x 47

### Wiring



1. Input 2, Away Function.
2. Input 3, Heating/Cooling.
3. Relays.
4. Actuator outputs.
5. External antenna.

### Danfoss A/S

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