

## 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> |

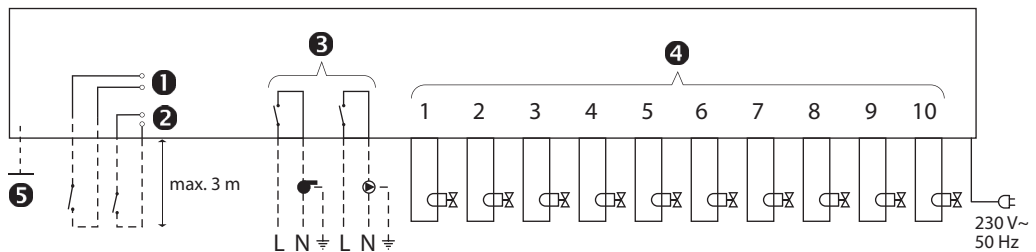
## Accessories

| 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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