ENGINEERING
TOMORROW

# Danfoss *Icon*™ Dial
## Room Thermostats, 230 V

### Description

Danfoss *Icon*™ Dial 088U1000

Danfoss *Icon*™ Dial 088U1005

Danfoss *Icon*™ is a range of flush and surface mounted room thermostats for hydronic floor heating applications.

Danfoss *Icon*™ Dial is mains powered and can be used as a stand-alone thermostat or in combination with wiring center 088H0016.

The thermostat uses a relay output and can control up to 5 thermal actuators.

The user can set the desired room temperature with the dial, in a range from 5 to 30 degrees.

The dial can be removed, allowing limitation pins to be used to limit the setpoint range.

**Features**
- ON/OFF control
- Inwall version compatible with a wide range of 3rd party wall frames
- Range limitation via pins
- Neutral design and simple user interface
- Frost protection setting
- Can be used with 230 V NC or NO actuators
- Includes thermal accelerator
- Very high UV-resistance

### Ordering

| Product | Version | Size | For junction box | Code no. |
|---|---|---|---|---|
| Danfoss *Icon*™ Dial | In-wall | 80 x 80 mm | Euro, Ø68 mm | **088U1000** |
| Danfoss *Icon*™ Dial | In-wall | 86 x 86 mm | Square, 70x70 mm | **088U1001** |
| Danfoss *Icon*™ Dial | In-wall | 88 x 88 mm | Swiss type | **088U1002** |
| Danfoss *Icon*™ Dial | On-wall | 86 x 86 mm | N.A. | **088U1005** |

### Accessories

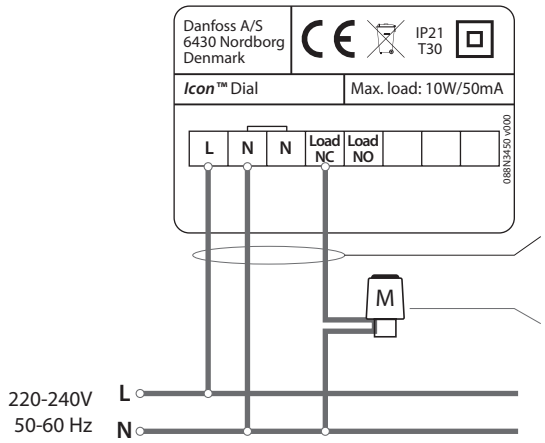
| Product | Description | Code no. |
|---|---|---|
| Danfoss FH-WC, 230V | Wiring center, 8 channels, up to 16 outputs | **088H0016** |

## Technical specifications

| | |
|---|---|
| Type | Dial |
| Temperature setting range | 5 - 30° C (frost protection setting = 5° C) |
| Ambient temperature, storage | -20 to 60° C |
| Ambient temperature, used in application | 0 to + 40° C |
| Controller, type | On/Off with thermal accelerator |
| Max. continuous load (output) | < 50 mA /10 W (= 5 pcs. Danfoss TWA actuators) |
| Max. inrush current (actuator) | 3 A ≤ 100 ms |
| Power consumption | 0.4 W |
| Power supply (excl. actuators) | 220-240 V, 50/60 Hz |
| Sensor, room | 47 kΩ, NTC |
| Shell material | White parts: PC ASA<br>Grey parts: PC, 10% glass |
| IP and Protection class | IP: 21 Protection class: II |
| ErP class | ErP Product class 1 (1%) |
| Approval | CE, RohS, WEEE |
| Colour | White RAL9010 / Dark Grey RAL7024 |
| Dimensions, in-wall versions | 80 x 80 x 11 mm (088U1000)<br>86 x 86 x 11 mm (088U1001)<br>88 x 88 x 13 mm (088U1002) |
| Dimensions, on-wall version | 86 x 86 x 25 mm (088U1005) |

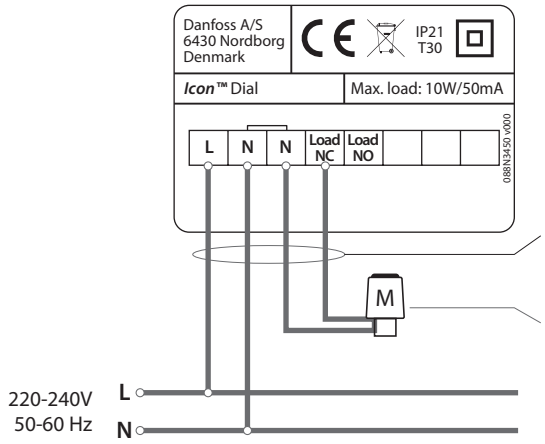
## Wiring examples

### Wiring without wiring center, neutral wire from main installation




*Min. 3G1.5 cable to thermostat (not counting Protective earth)*

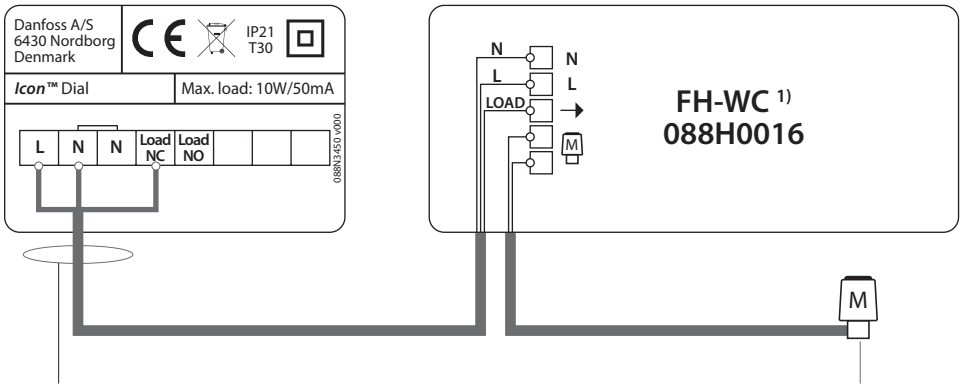
*Max. 5 actuators, type NC or NO, 230V*
*Max. 10 W / Max. 50 mA continuous load*
*Max. 3 A inrush current ≤ 100 ms*




*Min. 4G1.5 cable to thermostat (not counting Protective earth)*

*Max. 5 actuators, type NC or NO, 230V*
*Max. 10 W / Max. 50 mA continuous load*
*Max. 3 A inrush current ≤ 100 ms*

### Wiring with wiring center

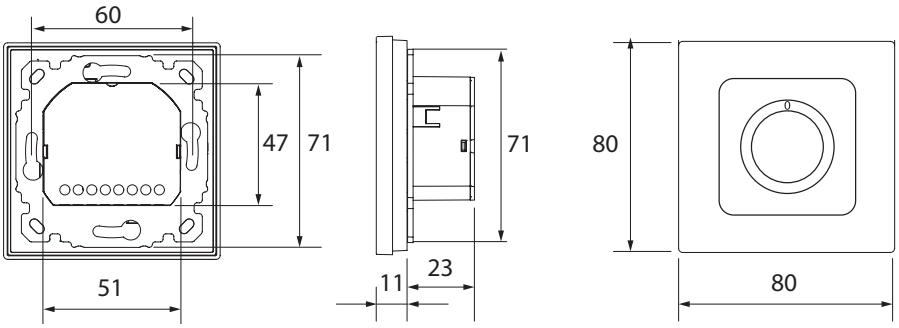



*Min. 3G1.5 cable to thermostat (not counting Protective Earth)*

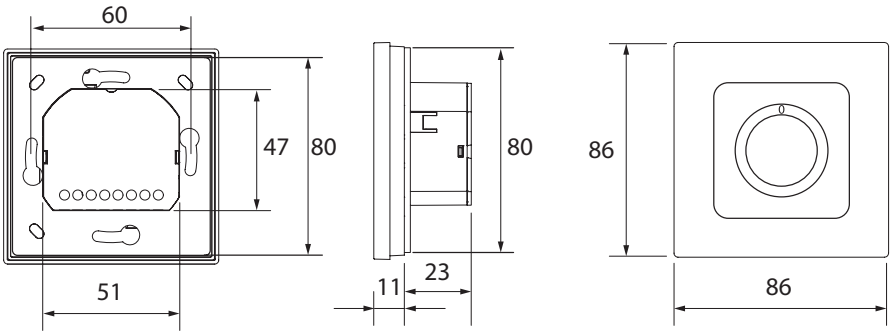
*Max. 5 actuators, type NC, 230V*
*Max. 10 W / Max. 50 mA continuous load*
*Max. 3 A inrush current ≤ 100 ms*

[1] ***Note!*** *Wiring center FH-WC 088H0016 only supports NC actuators.*

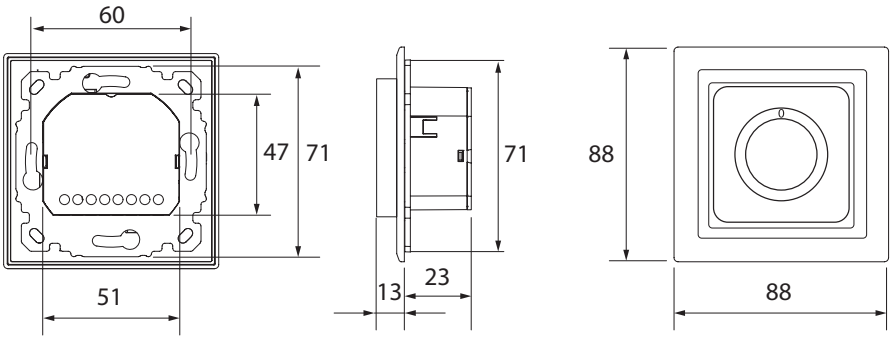
## Dimensions



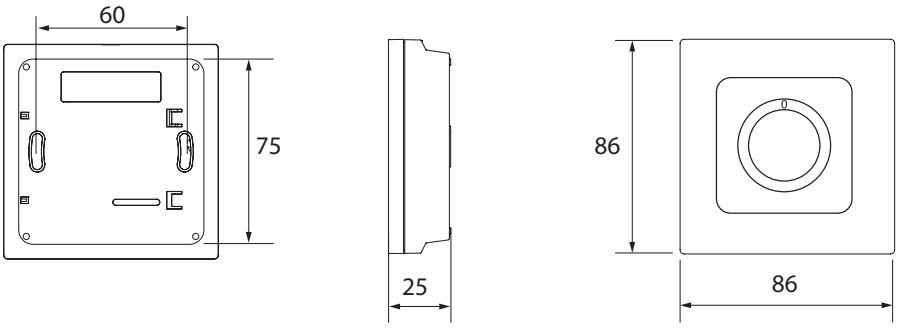

Danfoss *Icon*™ Dial 088U1000




Danfoss *Icon*™ Dial 088U1001




Danfoss *Icon*™ Dial 088U1002
(incl. Feller EDIZIOdue frame and adapter)




Danfoss *Icon*™ Dial 088U1005