

## Data Sheet

# Danfoss Icon™ Dial

## Room Thermostats, 230 V

## Description

*Danfoss Icon™ Dial 088U1001**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 088U1042.

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;
- 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	86 × 86 mm	Square, 70 × 70 mm	<b>088U1001</b>
Danfoss Icon™ Dial	On-wall	86 × 86 mm	N.A.	<b>088U1005</b>

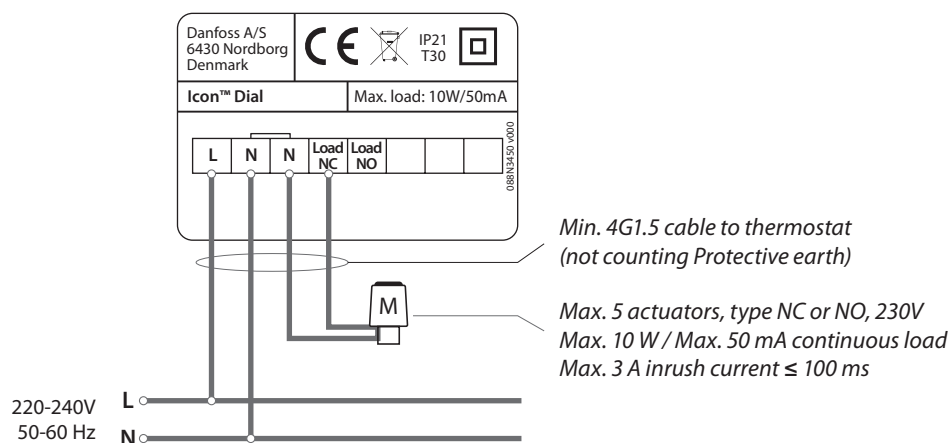
## Accessories

Product	Code no.
Danfoss Icon™ 230V Wiring Center, 8 channels, up to 14 outputs, NP	<b>088U1042</b>

## Technical specifications

Type	Dial
Temperature setting range	5 °C to 30 °C (frost protection setting = 5 °C)
Ambient temperature, storage	–20 °C to +60° C
Ambient temperature, used in application	0 °C 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 Grey parts: PC, 10% glass
IP and Protection class	IP: 21                  Protection class: II
ErP class	 (1%)
Approval	CE, RoHS, WEEE
Colour	White RAL9010 / Dark Grey RAL7024
Dimensions, in-wall versions	86 × 86 × 11 mm (088U1001)
Dimensions, on-wall version	86 × 86 × 25 mm (088U1005)

### Wiring without Wiring Center, neutral wire from main installation



Danfoss A/S  
6430 Nordborg  
Denmark

CE IP21 T30

Icon™ Dial

Max. load: 10W/50mA

L N N Load NC Load NO

M

088U1042

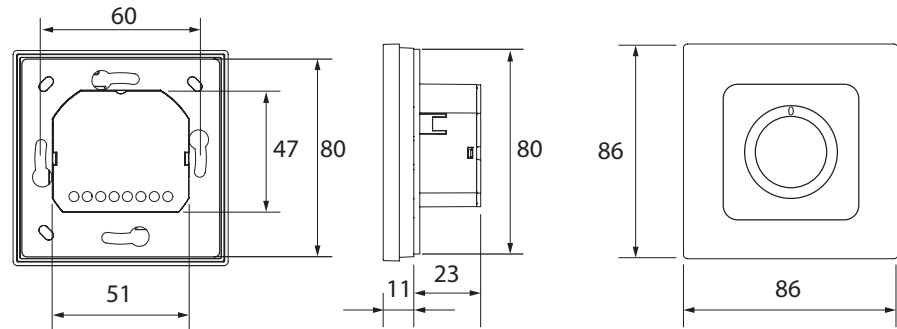
**Wiring Center 1)**  
088U1042

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

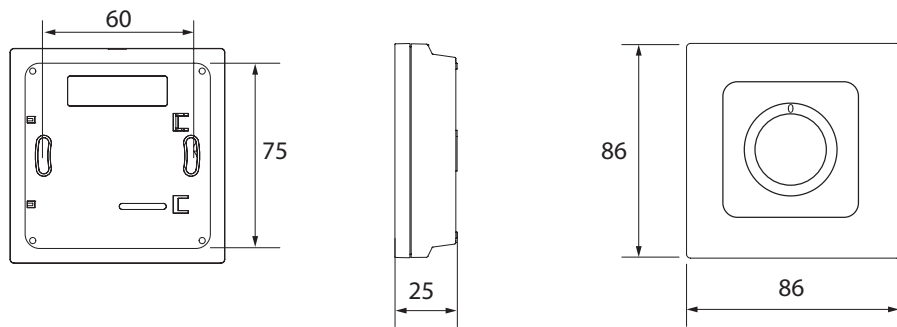
Min. 3G1.5 cable to thermostat  
(not counting Protective Earth)

AI155586480022en-GB0301 | 3

## Dimensions



Danfoss Icon™ Dial 088U1001



Danfoss Icon™ Dial 088U1005

## Danfoss Limited ❷❸

Climate Solutions • danfoss.uk • 0330 808 6888 • customerservice.uk@danfoss.com  
Danfoss Ltd, Oxford Road, UB9 4LH Denham, UK

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