INSTRUCTIONS

Type OSA4-10

67027E 07/16 (LOA)

ōj ®

English

RELAY MODULE FOR CS4™
Relay module for controlling electric heating panels, etc., featuring night setback, frost protection and floor sensing thermostat mode. Only for use in combination with the Central Controller for wireless communication.

PRODUCT PROGRAMME

OSA4-10	Relay module incl. mounting box
OSC4/MCS4-10	Central Controller incl. floor sensor

WARNING – Important Safety Instructions
Disconnect the power supply before carrying out any installation or maintenance work on this unit and associated components. This unit and associated components should only be installed by a competent person (i.e. a qualified electrician). Electrical installation must be in accordance with appropriate statutory regulations

INSTALLING THE RELAY MODULE
The Relay module is designed for flush mounting in a wall socket or in the accompanying mounting box.
Fig. 1:
1. Slide the power button down to Off "0".
2. Release the front cover ONLY by inserting a small screwdriver into the hole on either side of the Relay module.
Fig. 2, 2a eller 2b:
3. Connect the wires in accordance with the diagram.
4. Mount the unit in a wall socket or the accompanying mounting box.
5. Fit the frame and carefully press the cover onto the Relay module. Ensure that both the power slide button on the cover and the power switch pin are down.
DO NOT open the Relay module by releasing the four fixing clips on the back.

APPLICATION
The relay module can be used for three different control types: Night setback, Frost protection or with an external floor sensor.

Fig. 2: Night setback
Connect the heating panel to terminal 4. The relay module sets the heating panel in setback mode according to the time programmed in the 4-event time schedule from the Central Controller (most heating panels have a built-in "night setback input-connector").

Fig. 2a: Frost protection
Short-circuit terminals 5 and 6 to set the relay module to frost protection.
The relay module enters frost protection mode and uses the built-in room sensor to maintain the frost protection temperature.
In frost protection mode, the relay module ensures that the heating panel maintains the setpoint set on the Central Controller.

Fig. 2b: Thermostat with external sensor
Connect a floor sensor to terminals 5 and 6. Now the relay module works as a thermostat controlling the heating according to the floor temperature.
The relay module controls the temperature according to the 4-event time schedule from the Central Controller.

MOUNTING THE RELAY MODULE
The accompanying mounting box makes it easy to mount the Relay module on the wall. Draughts and direct sunlight or other heat sources must be avoided.
Fig. 3:
Observe the minimum distance of 0,5m, from large metal surfaces, electronic equipment, electric motors, etc.
Fig. 3a:
To ensure good signal transmission the unit should be mounted as high as possible.
The unit should be mounted min. 0,5m above the floor, away from the heating source, in such a way that the unit is unaffected by the floor heat.
Fig. 3b:
To ensure good wireless transmission without interference, *all wireless units* in the Comfort System CS4™ should always be placed with min. 1,0m between them.

SETTINGS
See user manual for CS4™ for further options and how to plan you system.
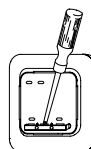
LED READOUTS

Green ON:	Power ON, Relay module OK.	
Green flashes quickly:	Connection sequence in progress	
Green flashes slowly:	No connection to Central Controller	
Red ON:	Relay ON, power to heating source	
Red flashes quickly:	Error code	
	1 flash	E1: Internal sensor defective or short-circuited.
	2 flashes	E2: External sensor defective or short-circuited
	5 flashes	E5: Internal overheating. Inspect the installation.
	6 flashes	E6: Communication error

FACTORY RESET
Allows factory settings to be restored and cancels the connection to the Central Controller.
1. Remove the cover by inserting a small screwdriver into the hole on one side of the thermostat.
2. Now hold the screwdriver on the contact points under the LEDs. Hold it until both LEDs flash three times. The relay module has now been reset.
3. Mount the cover and turn the power off and on again. The relay module will now connect to the Central Controller.

CERTIFICATION
OJ Electronics A/S hereby declares that the product conforms with the following Directives of the European Parliament and of the Council:
LVD, EMC, R&TTE, RoHS and WEEE

CE

Applied standards
Please see the document "EC DECLARATION OF CONFORMITY" in the back.

CLASSIFICATION
The product is a Class II device (enhanced insulation) and must be connected in the following way:

Term. 1:	Neutral (N)
Term. 2:	Phase (L) 230 V ±10 %, 50/60 Hz
Term. 3-4:	Load, max. 16 A / 3600 W
Term. X:	Do not connect
Term. 5-6:	Night setback, frost protection or external floor sensor

ENVIRONMENT AND RECYCLING
Please help us to protect the environment by disposing of the packaging in accordance with national regulations for waste processing.

RECYCLING OF OBSOLETE APPLIANCES
Appliances with this label must not be disposed of with general household waste. They must be collected separately and disposed of in compliance with local regulations.

TECHNICAL DATA
Voltage .... 230 V AC ±10 % 50 Hz
Max. pre-fuse .... 16 A
Built-in circuit breaker .... 2-pole, 16 A
Output relay............ Make contact - SPST - NO
Output .... Max. 16 A / 3600 W
Control principle................................. PWM/PI
Stand-by power... 1 W
RF frequency band..............................868 MHz
RF transmission range..... 100 metres/open field
Frost protection ....+5/+10 °C
Ambient operating temperature..........+0/+25 °C
Pollution degree.. 2
Overvoltage ....Cat. II
Rated impulse voltage............................... 4 kV
Enclosure rating.. IP 21*
Dimensions..................... H/81, W/81, D/40 mm
Mounting depth .... 20 mm
EU Registered Design 001101349-0001/2
Automatic action type 1

* IP 21 applies only to front with cover after mounting in a flush box

The relay module is maintenance free.

Fig. 1

BR0987B08a

Fig. 2

N/L2
L/L1
SETBACK

BR0987B18a

Fig. 2a

N/L2
L/L1

BR0987B07a

Fig. 2b

N/L2
L/L1

BR0987B21a

Fig. 3

0.5M

BR0986B02a

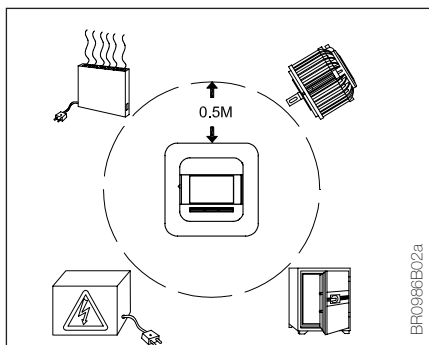Fig. 3a

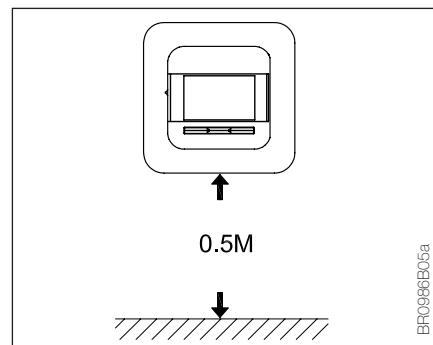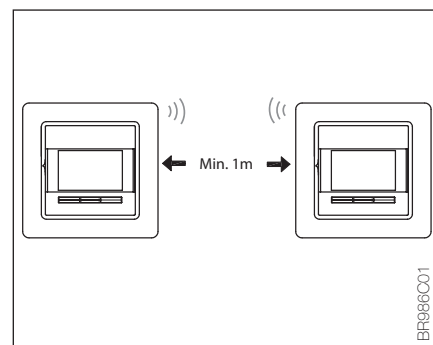0.5M

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Fig. 3b

Min. 1m

BR986C01
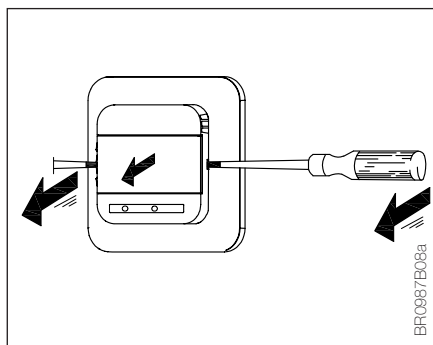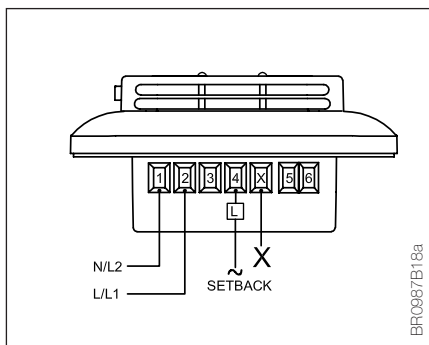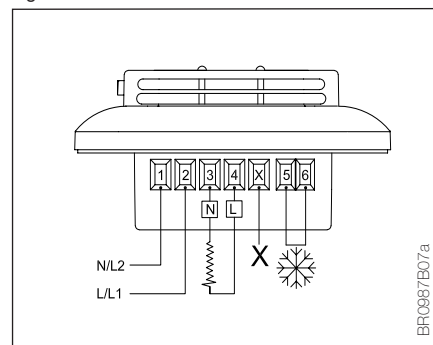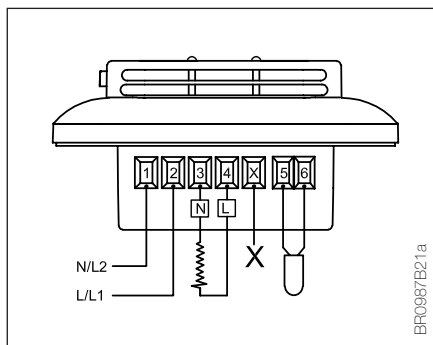
EC DECLARATION OF CONFORMITY

en No.: 0987

The undersigned, representing the following manufacturer

Manufacturer:	OJ ELECTRONICS A/S
Address:	Stenager 13B, 6400 Soenderborg, Denmark, tlf. (+45) 7312 1314.

Herewith declares that the product

Product identification: Control, temperature sensing

	OCS4-10, MCS4-10	Central Control Unit
	OSC4/OSD4, MSC4/MSD4	Satellite Unit
	OSA4-10, MSA4-10	Relay Point Unit

Is in conformity with the provisions of the following EC directive(s)
(including all applicable amendments)

Reference n°	Title
2004/108/EC	EMC DIRECTIVE The European parliament and of the council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC.
2006/95/EC	LOW VOLTAGE DIRECTIVE Council Directive 2006/95/EC of 12 December 2006 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits
1999/5/EEC	R&TTE DIRECTIVE Directive of 9 March 1999 of the European Parliament and of the Council on Radio Equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity

Harmonized standards

N°	Issue	N°	Issue
EN 60730-1	2011	EN 300 220-2	V2.4.1
EN 60730-2-9	2010	EN 300 220-1	V2.1.1
		EN 301 489-3	V1.4.1
		EN 301 489-1	V1.8.1
		EN 62479	2010

Testing was carried out by the VDE Prüf- und Zertifizierungsinstitut.

Soenderborg, date 04/07/2013

(signature)