OJ Microline® range . Type OTN
Thermostat with setback mode

Elegant European design
can be mounted in combination with various types of light switches

Thermostat with setback mode type OTN

- Recommended for control of underfloor heating and electrical heating.
- Electronic on/off control up to 3600W, 16A.
- Built-in setback mode for automatic comfort and setback temperature via timer.
- Flush mounting or wall mounting.

PRODUCT PROGRAMME

Type	Product
OTN-1991H11	Thermostat IP 21 with setback mode 5°C incl. floor sensor 3 m Remote room sensor can be mounted
OTN-1999H	Thermostat with setback mode 5°C with internal room sensor
Accessories	
ETF-944/99-H	Remote room sensor for surface wall mounting
OTN-VH	Baseplate for surface wall mounting
MTC-EH	Cover type Elko
MM-7595	Electronic day/week timer for DIN-rail

THERMOSTAT FUNCTIONS

Thermostat control:
Type OTN is an electronic on/off thermostat with control of temperature by means of NTC sensor. The heat output is switched on and off with a difference of only 0.4°C. Red LED indicates when heating is on.

Temperature setback:
Type OTN with setback mode 5°C which is activated with a day/week timer, e.g. MM-7595. The timer is programmed with the required comfort and setback periods.

Housing IP 21:
Type OTN-1991H11 can be mounted in bathrooms and other humid rooms.

Section 3

TECHNICAL DATA

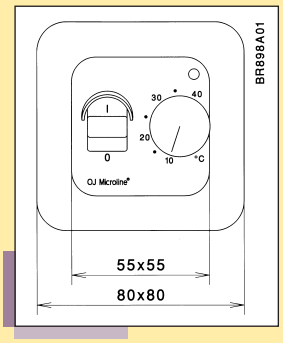
Supply voltage	230V +10/-15%, 50/60 Hz
Output relay SPST	16A, max. 3600W
- type OTN-1991H11	14A, max. 3200W
Built-in interrupter	1-pole
Temperature range	+5/+40°C
Setback mode (via remote timer)	5°C
On/off differential	0.4°C
Ambient temperature	0/+50°C
Housing	IP 20
- type OTN-1991H11	IP 21
Sensor type	NTC
- heating is switched off in case of sensor failure	
Dimensions (H/W/D)	80/80/50 mm

Temperature setback:

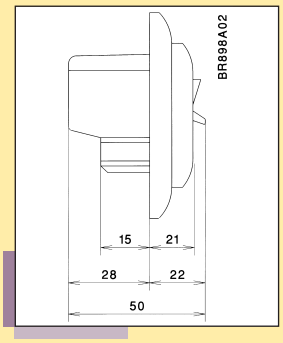
Type OTN with setback mode can be connected to day/week timer, which is programmed with the required comfort and setback periods.

Adjustment of the thermostat:

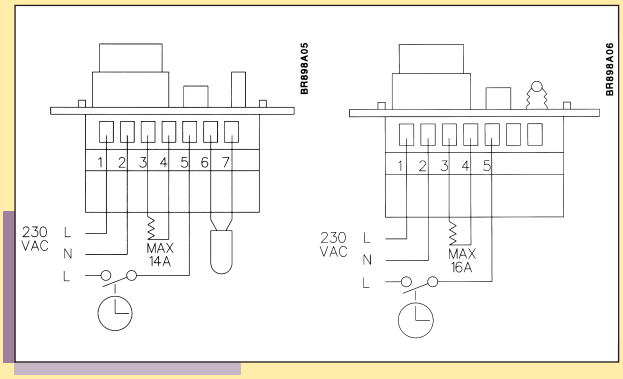
Temperature range +5/+40°C for easy setting of required temperature. With the locking rings behind the thermostat button the min./max. temperature setting can be selected.



Dimensions



Dimensions



Connection OTN-1991H11 *Connection OTN-1999H*

MOUNTING

Mounting of thermostat:

1	Flush mounting in standard wall socket.
2	In combination with light switch types Busch-Jaeger, Merten, Ensto and Eljo. Relevant type double frame is used.
3	In combination with light switch types Elko, Strömfoss, Norwesco and Siemens. Cover type MTC-EH and relevant type double frame are used.
4	Surface wall mounting with baseplate type OTN-VH.

Type of temperature sensor:

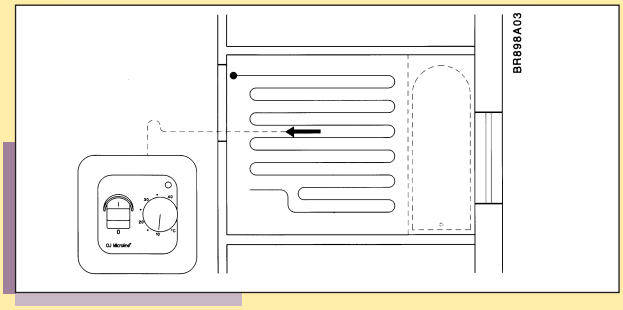
Type OTN is delivered incl. floor sensor or with internal room sensor. Remote room sensor can be mounted.

Mounting of floor sensor:

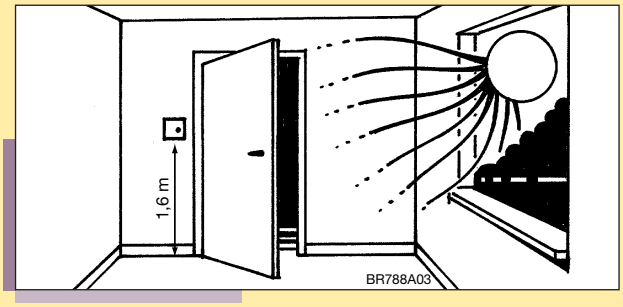
Floor sensor is used for comfort heating of floor. The sensor is mounted in conduit of consideration of replacement. The conduit is mounted between heating cables and ended towards the floor surface. If required, the floor sensor can be extended up to 100 m with a standard installation cable.

Mounting of room sensor:

Room sensor is used for room heating. Thermostat with internal sensor is mounted approx. 1.6 m above the floor. Draught, direct sunlight or any other direct heating outlet must be avoided. If it is not possible to mount the thermostat in the correct position, remote room sensor type ETF-944/99 is recommended. Type of thermostat incl. floor sensor is used, but a room sensor is mounted instead of floor sensor.



Mounting of floor sensor



Mounting of thermostat with internal or remote room sensor