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HSD0012

HSD0011 / HSD0012* Room Sensor

c/w occupancy signal & set point adjustment*

Room sensors optimised for use with HRW DDC controllers and I/O expansion units. Also may be used with controllers of other manufacture.

As well as providing user zone comfort setting the sensor includes communication port for direct access to related HRW DDC devices for program setting or commissioning.

Typical Uses

- Room temperature
- HSD0012 – Zone set point adjustment
- Zone occupancy / after hours signalling
- Controller engineering access point
- Suitable for RJ11 connection, UI1 & UI2, of any HRW HP_0662 device
- With HRW HP_8884 devices HW ver 3.5, available from September 2013

Feature Summary

- Room sensor, 10k NTC, Type2, B25/50 3950 (HRW controller UI1)
- HSD0012: Set point adjuster, 4k7…14k7 potentiometer, absolute set point or +/- shift (set point at mid point), controller program dependant (HRW controller UI2)
- Occupancy button
  - HSD0011 – Press sensor face for momentary closure of HRW controller UI2
  - HSD0012 – Press set point dial for momentary short-circuit of set point potentiometer (press set point dial edge 11 o'clock or 1 o'clock position, HRW controller UI2)
- Internal RJ11 port for plug in connection to associated controller, for control signals (UI1, UI2) and service/engineering
- External RJ11 port for room-level access to related controller for service/engineering (HPECOMU)

Connections, HSD to Controller

- 6 core flat telephone cable
- RJ11 6P6C connector x2
- Fit RJ11 plug to each end of the 6 core cable with identical colour-coding alignment, which results in cross-over configuration. When the cable is laid flat the RJ11 retaining clip at one end of the cable is up and at the other end the RJ11 retaining clip is down
- For connection to third-party controller, RJ11 6P6C at sensor end and screw terminal connection at controller end or adapt wiring sequence for alternative RJ11 connection if suitable facility at third-party controller end

Occupancy Button Note

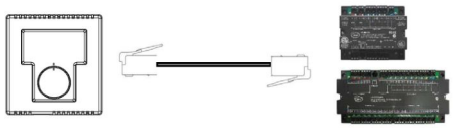
HRW controllers HPC & HPV from 14th August 2013 have new DL function 9 for single DL block utilisation of the Occupancy button as described on page 4.

Earlier firmware versions require user-creation of a flow of function blocks to achieve the end result. An example is outlined on Page 5.

Connections

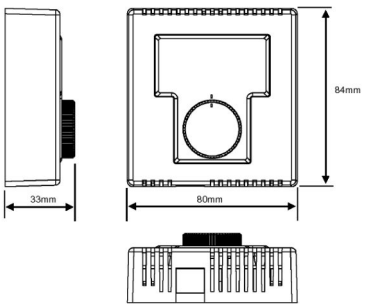
For connection to HRW devices, UI1, UI2 & HPECOM terminal facility, use 6 core flat cable with RJ11 6P6C at each end. The RJ11 connectors are opposed orientation end to end as pictured below:

Connect one end of the cable to the RJ11 socket in back of the HSD sensor and the other end to the RJ11 socket of the HRW device (HP_0662 or HP_8884):



For connection of the HSD sensor to third-party devices the following guide assists in selecting the correct cores for screw terminal connection, or alternative RJ11 connection order, to the third-party device. Core colours are for example only:

Dimensions



Technical Data

Outputs	
1 x Passive AO	- Temperature; 10k NTC, Type2, B25/50 3950 RJ11 connection to HP_0662 / HP_8884 UI1
1 x Passive AO/DO	- Setpoint; 4k7…14k7 (HSD0012 only) RJ11 connection to HP_0662 / HP_8884 UI2 - Occupancy; momentary short-circuit of setpoint adjuster
Sensor Wiring	6 core flat telephone cable, RJ11 <> RJ11
Other facilities	External access RJ11 port for HPECOMU connection to related HP_0662 or HP_8884 device
Components & Materials	Conform to UL, RoHS
Operating Temperature Range	0…50ºC (32…122ºF)
Storage Temperature Range	-5…75ºC (-40…167ºF)
Humidity Range	10…95%rH (non-condensing)
Dimensions	84mm H x 80mm W x 33mm D (to dial face)