








# APD

## AUTOMATIC PERSONNEL DETECTOR



- The APD is an occupant sensing system used to control services such as heating, lighting and air conditioning. It does not require extensive rewiring, and can be configured with existing controls to give sophisticated control at low cost. The APD can identify when an area is occupied and can automatically activate/de-active control circuits accordingly.
- The system comprises a power supply and control unit to which up to 16 occupant-sensors may be linked. Connections are in parallel using extra low-voltage three core cable. This makes the APD ideal for multi-point sensing in corridors, stairways open plan areas etc.
- Two versions of the APD are available, the standard APD and the push button version.
- The APD/S detects sonically when people are present and will activate control circuits accordingly.
- The APD/S/PB requires manual initiation. The brushed aluminium infill plate is also a push button. Once initiated the unit detects sonically when people are present and will activate control circuits accordingly. When an area becomes vacated, circuits will be switched off and will remain off until initiated again.
- The attractive low-profile enclosure is manufactured in a tough nylon compound designed to blend unobtrusively with any decor. When controlling lighting, a small window mounted external light sensor can ensure that lighting is only available if ambient light levels are below a preset threshold.

### COMPONENTS

- |                  |  |
|------------------|--|
| <b>APD/PS</b>    | Power supply and controller for APD/S                  |
| <b>APD/S</b>     | Sonic sensor   |
| <b>APD/PS/SL</b> | Sound latched power supply and controller for APD/S/PB |
| <b>APD/S/PB</b>  | Push button sonic sensor                               |
| <b>APD/W</b>     | Window Light Detector                                  |
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# APD

## AUTOMATIC PERSONNEL DETECTOR

SPECIFICATIONS

### SONIC SENSOR (APD/S or APD/S/PB)

**Material** White and grey textured flame retardant mineral filled nylon with brushed aluminium infill plate

**Dimensions** 150(h), 62(w), 25(d) mm

**Weight** 110g

**Storage Temp** -65°C to 125°C.

**Operating Temp** 0°C to 70°C.

**Terminations** Terminals accept cable from 0.5 to 2.5mm diameter (flexible for final connection).

**Supply Voltage** 12Vdc (from APD/PS or APD/PS/SL).

**Power Consumption** 10mA.

**Frequency Response** 500Hz-4kHz, trigger 45dBA to 98dBA. 0.25°C.

**Accessories** Escutcheon plate, Allen key to remove cover.

### LIGHT SENSOR (APD/W)

**Dimensions** 15(h), 20(w), 10(d) mm

**Weight** 15g

**Storage Temp** -65°C to 125°C.

**Operating Temp** 0°C to 70°C.

**Fixing Method** Ultra violet curing glue.

### CONTROLLER (APD/PS or APD/PS/SL)

**Material** Grey finished steel.

**Dimensions** 161(h), 110(w), 52(d) mm

**Weight** 760g

**Storage Temp** -65°C to 125°C.

**Operating Temp** 0°C to 70°C.

**Terminations** Terminals accept cable from 0.5 to 2.5mm diameter.

**Supply Voltage** 220/240 Vac 50Hz.

**Power Consumption** 6vA.

**Switching Capacity** 4A - 250Vac (resistive).

**Contacts** 2 normally open, 2 normally closed.

**Timer** 30 secs to 20 mins.

**Long Trip Threshold** ON 800-40000, OFF 950-55000 LUX.