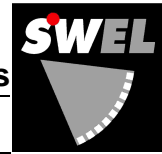


"Mini" Occupancy Sensor CUBI-Classic

Details



super sensitive Ultrasonic Motion Detector for individual work places

GREk.c



Operating Principle (NEW TECHNOLOGY!)

The "Mini" Occupancy Sensor Type CUBI works based on the Ultrasonic Echo Principle. The new technology mimics the orientation function of the bat called echolocation: The sensor emits short pulse-like bursts of inaudible ultrasonic energy. Returning echoes are analyzed by an internal microchip to paint a "picture" of the scanned area.

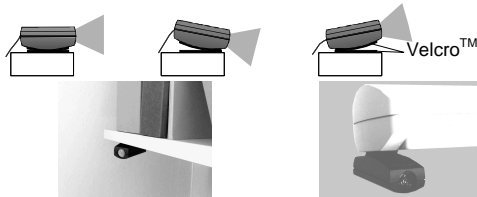
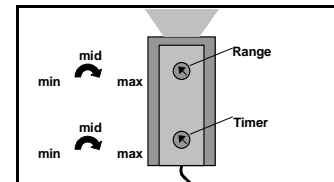
In these "pictures", close-up objects can be separated from the background. Inside the close-up range the resolution is 2mm, enough to detect the breathing motion of a person sitting quietly at his or her desk. Background motions are cut off as if there was an invisible wall. Passers-by do not trigger the sensor.

Operation rhythm as well as detected motion are monitored by a LED visible on the side.

- **best application: individual work areas, cubicles**
- **also good as proximity sensor for mirror lighting for example**

Adjusting Range and Timer

Pre-settings can be altered with the help of a small screw driver if required. The adjusters can be reached through two openings in the bottom of the sensor case: Adjust the Range at the front (sensor) side and the Timer at the rear (cord) side.



Easy to attach without tools

The lightweight sensor can be attached to any surface with Velcro™. The curved bottom of the sensor's plastic case permits the user to adjust the angle of detection for best sensitivity. Surface must be clean, dry and non-greasy.

You can remove the sensor without leaving a trace. Your furniture and equipment will not be damaged.

Problems?

The LED does not blink:

- Check if the sensor is plugged to the power module that goes with it correctly, and that there is no power failure.
- Some computer monitors, dimmers and lamps emit strong electrical noise. Moving the sensor a little will usually help.
- Drills and lathes also emit ultrasound that interfere with the sensor. Do not use this sensor in mechanical workshops.
- Do not use this sensor together with ultrasonic sensors from other manufacturers in the same room.

The sensor does not "see" you or does not reliably "see" you:

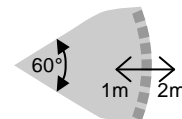
- Check that the sensor's view is not obstructed (e.g. pile of books). If so, attach the sensor a bit higher.
- Check the range setting.

The LED blinks brightly, even when the covered area is unoccupied:

- The sensor is extremely sensitive (sensitivity levels down to 2mm!). Check curtains etc. for movement. Re-direct the sensor or reduce the range (adjuster).
- Warm or cold air flows through the sensor's close-up range. Decreasing the range will reduce false switching. However, use is not recommended in immediate vicinity of open windows, radiators and air conditioners.

Specifications

- Range 1m - 2m (3.5' - 6.5') adjustable
- Angle of view 60°
- Timer 2sec ... 2min adjustable
- LED: blinking = operating rhythm, bright = motion
- Sensitivity inside close-up range: 2mm (1/10")
- Ultrasound 40kHz, inaudible for human beings and pets
- Case black, 34mm x 28mm x 63mm (1.3" x 1.1" x 2.5")
- Cord length 1,90m (6.5'); Weight 50g (2oz.)
- Power supply 5V DC (+/-5%), 15mA typ. (20mA max.)
- Several (recommended up to 3) CUBI Sensors can operate in the same room
- Use is not recommended in immediate vicinity of open windows, radiators or air conditioners
- For indoor use in a dry environment
- RoHS compliant



SWEL is constantly improving its products and reserves the right to make changes in the product design without notification.

