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# wLSN Smoke Detector for Europe



- ▸ **Photoelectric beam obscuration smoke detector with a sensitivity of 0.14 ± 0.04 dB/m.**
- ▸ **Externally-visible LED indicates smoke detector status**
- ▸ **Supervised for low-battery and detector head removal conditions**

The wLSN Smoke Detector is a non-latching wireless detector that transmits alarm signals to the wLSN Hub using the wireless Local SecurityNetwork (wLSN) protocol.

**Test-Silence Button Operation**

A Test-Silence Button allows performance of sounder and sensitivity tests and silencing of alarm sounder and trouble chirp. Refer to the *wLSN Reference Guide* (P/N: F01U009440) for details.

## Functions

### Alarm Mode

When the detector goes into alarm mode, the detector's built-in sounder turns on steady and an RF signal indicating the alarm condition is sent to the wLSN Hub. The Hub signals the control panel identifying the specific detector in alarm. Alarm conditions are non-latching so if the alarm condition goes away – smoke dissipates – the detector returns to normal.

The photoelectric smoke detector acquires ambient obscuration data every 8 seconds. The red LED blinks every time a sample is taken. If any one sample is above the calibrated alarm threshold, two more samples are taken at 4-second intervals. If all three samples are above the calibrated alarm threshold, the detector goes into alarm mode.

### Status Indicator

The LED and sounder indicate the status of the detector but not of the RF signaling circuitry. Refer to the *wLSN Reference Guide* (P/N: F01U009440) for details.

## Certifications and Approvals

| Region | Certification | |
|--------|---------------|---|
| Europe | CE | 1999/5/EC Radio Equipment and Telecommunications Terminal Equipment (annex V); IEC 60950-1: 2001; EN 60950-1:2001 +A11:2004; EN 50130-4: 1996 +A1: 1998 +A2: 2003; ETSI EN 300 220-1 V1.3.1: 2000-09; ETSI EN 301 489-1 V1.4.1: 2002-08; ETSI EN 301 489-3 V1.4.1: 2002-08; EN 14604:2005; EN 55022/ANSI C63.4:2003; EN 61000-4-2:1995 +A1:1998 +A2:2001; EN 61000-4-3:2002 +A1:2003 +A2:2005; EN 61000-4-4:1995 +A1: 2001 +A2:2001; EN 61000-4-5:1995 +A1:2001; EN 61000-4-6:1996 +A1:2001 +A2:2001 +A3:2005; EN 61000-4-11:1994 +A1:2001  Sep 2008 |
| Belgium | BOSEC | TCC2-H623 |

## Installation/Configuration Notes

### Compatibility Information

The wireless Local SecurityNetwork (wLSN) including the wLSN Smoke Detector is compatible with the Easy Series Control Panel.

### Mounting Considerations

Mount smoke detectors on interior ceilings preferably at or near the center of the ceiling. Where mounting in the center of the ceiling is not practical, mount on the ceiling no closer than 10 cm (4 in.) to walls or corners or on an inside wall between 10 cm (4 in.) and 15 cm (6 in.) from the ceiling near the middle of the wall.

| Note | Do not mount smoke detectors on drop ceiling tiles. Mount to a metal runner. Since installation on metal surfaces can affect the RF propagation pattern of the radio transceiver, verify the suitability of the installation site using the wLSN Installation Tool before detector installation. |
|------|---|

The RF transceiver has a range of approximately 1000 m (3000 ft) in open air. However, in normal operation, the actual RF range depends on building construction.

## Parts Included

| Quant. | Component |
|--------|-----------|
| 1 | Smoke detector |
| 2 | Lithium batteries (P/N: 36092) |
| 1 | Dust cover |
| 1 | Hardware pack |
| 1 | Literature pack |

## Technical Specifications

### Environmental Considerations

| | |
|---|---|
| Environment: | Indoor, dry; IP30 |
| Relative Humidity: | Up to 90%, non-condensing |
| Temperature (operating): | +4℃ to +38℃ (+40℉ to +100℉) |

### Mechanical Properties

| | |
|---|---|
| Color: | Off-white |
| Dimensions (diameter x D): | 14.2 cm x 6.1 cm (5.6 in. x 2.4 in.) |

### Outputs

| | |
|---|---|
| Low Battery Chirp Rate: | 1 chirp every 45 ± 2 sec |
| Sounder: | 85 dBA at 3 m (10 ft) continuous |

### Power Requirements

| | |
|---|---|
| Batteries: | Two 3-volt lithium (CR123A) |
| Battery Life: | Up to 5 years under normal operating conditions |
| Recommended Replacements: | SANYO CR123A, Panasonic CR123A, Duracell 123, VARTA CR123A |

### Transmission and Reception Characteristics

| | |
|---|---|
| Frequency: | European Security Band 868 MHz to 869 MHz |
| Range (open field): | 1000 m (3000 ft) |

### Trademarks

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## Ordering Information

**wLSN Smoke Detector for Europe**     ISW-BSM1-SX
Non-latching wireless detector for transmit-
ting alarm signals to the wLSN Hub