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Illumino Ignis Ltd™
LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

Hybrid Wireless Optical Smoke Sensor with Sounder

Radio - Devices

Part No. EK-WL8-OS

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Product Details

The EK-WL8-0S is a wireless optical smoke sensor that incorporates 4 selectable tones.

It is a fully intelligent device and compatible with the Ekho wireless Translator and Expander modules.

The sensor utilises optical smoke detection technologies and algorithms for improved performance, which can contribute to reducing unwanted alarms. Utilising well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved.



Key Features

- Approved to EN54-3, 7 & 25
- RED compliant
- Sounder Incorporated
- 6 selectable tones *[1]
- Internal algorithm processing for optimal performance
- Tamper switch
- Up to 10 years battery life*[2]
- Utilises standard low cost lithium battery technology
- Bi-directional wireless communications
- Self optimising wireless amplitude and frequency
- Compatible with all Ekho Translator/ Expander modules.

Technical Specifications

Operating frequency range	866 - 869.5 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Operating temperature range	- 10 °C to + 55 °C	
Sound pressure level at 1m	>96 dB(A) for all modes	
Max. tolerated humidity (non condensing)	95% RH (non-condensing)	
Dimensions (mm)	Ø 111 x H 65	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Primary cell (CR123A)
	1.2 Ahr	1.2 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

*[1] Tones do not match ESP sounder tones.
*[2] Dependent on operational usage.
*Dependant on operational usage

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Standards & Approvals

BS EN 54-3: Sounders
BS EN 54-7 Smoke Detectors
BS EN54-25: Components using radio links

Tone Mode	Frequency
Tone 1	3500 Hz
Tone 2	2150 Hz

Sound Alert Mode	Tone	Duty Cycle
One-tone Continuous	Tone1	Continuous tone
One-tone Intermittent	Tone1	1s On /1s Off
One-tone Intermittent	Tone1	2s On / 2s Off
Two-tone	Tone1 & Tone2	1s / 1s
Two-tone	Tone1 & Tone2	0,4s / 0,4s
One-tone Intermittent	Tone1	0,2 On / 1,3s Off

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