# EKAVIS

# EF-EN-ASD
## ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR

LPCB · CPR · C€ · RoHS · EN54 Certified

# Features

- EN54-7 certified, LPCB approved
- Low standby and alarm current
- Integral microprocessor
- Electronic addressing

- Optional Isolator & Sounder Beacon bases
- Polarity-insensitive connection
- 360 degree LED indicator
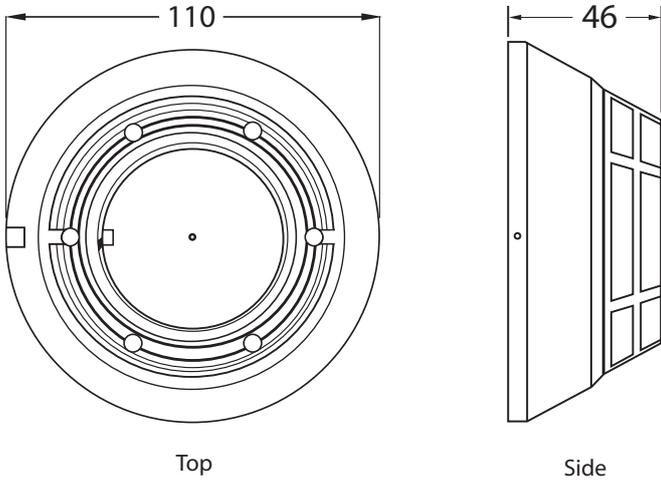- Drift compensation

# Description

EKAVIS EF-EN-ASD is a point-type addressable photoelectric smoke detector equipped with a built-in microprocessor, designed for reliable operation with the EKAVIS range of fire alarm control panels. It continuously analyzes air samples using an advanced optical sensing chamber to detect the presence of smoke particles from both smoldering and flaming fires. Intelligent signal processing algorithms enhance detection accuracy and minimize false alarms caused by dust, humidity or transient air disturbances. The detector's robust design ensures long-term stability and consistent performance in a wide range of environments.

EKAVIS EF-EN-ASD employs optimized photoelectric sensing technology to provide rapid and precise smoke detection for early fire warning. It automatically compensates for contamination and environmental drift, maintaining reliable sensitivity throughout its service life. A 360° LED indicator offers clear status visibility—blinking during normal operation and steadily illuminating red upon alarm activation. Designed for use across diverse commercial, residential and industrial environments, the detector provides reliable detection performance across a broad range of protected areas.

# Technical Specification

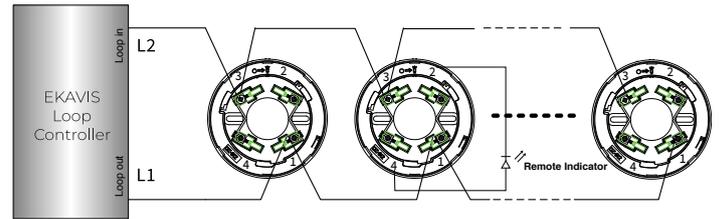| | |
|---|---|
| Standard | EN54-7 |
| Operating Voltage | 24V (18V～28V) |
| Standby Current | ＜0.3mA |
| Alarm Current | ＜1.5mA (without remote indicator) / ＜3.5mA (with remote indicator) |
| Fire LED | Red LED flashes in normal mode and stays on during alarm |
| Programming Mode | Electronically addressed |
| Address Range | One address within 1～324 |
| Wiring | Polarity-insensitive two-wire |
| Operating Temperature | -15°C to +60°C |
| Humidity | ≤95% (non-condensing) |
| Enclosure | PC+ABS |
| Dimension | φ100mmÅ～58mm (with the base) |
| IP Rating | IP30 |
| Coverage Area | 110 m² (subject to local standards) |
| Approximate Weight | 128 g (with base) |

## Appearance and Dimensions (mm)

110

46

Top

Side

## Wiring Diagram

The terminals L1 and L2 of the two-wire bus are connected with the terminals 1 and 3 of the matched mounting standard base.

A typical schematic diagram of the connection between multiple detectors with a fire alarm control panel is shown below.

EKAVIS Loop Controller

Loop in

Loop out

L2

L1

Remote Indicator

## Ordering Information

| EF-EN-ASD | Addressable Smoke Detector |
|---|---|

## Accessories

| EF-EN-SB | Standard Base |
|---|---|
| EF-EN-IB | Isolator Base |
| EF-EN-SBB | Sounder Beacon Base |

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