

# Detector range for BiWire systems EFBW5IN1DET & EFBWOPDET



## Overview

The BiWire detector range offers a 5 in 1 detector approved to EN54 parts 5 & 7 and an optical detector approved to EN54 part 7. Both cover many building needs. Quick and simple to install with a stylish low profile design, the detector is mounted on our standard conventional base (EFXN520). Each detector is fitted with a 360° viewable LED for indication.

This 5 in 1 detector can be configured to operate as either an optical detector, photo-thermal detector or 1 of 3 heat detector modes (rate of rise and 2 fixed heat models) using the four position switches located at the back of the detector. The EFBW5IN1DET is certified for use in all 5 modes.

### Features:

- Five modes in one detector
- Offers a range of sensor types
- 360° indicator LED using lightpipe technology
- Quick and simple to install
- Easy to maintain/service

### Benefits:

- Suitable for a broad range of applications
- Wide viewing angle for increased LED visibility
- Positive “lock” indication
- Discreet design for incorporation into any decor

## Eaton product datasheet

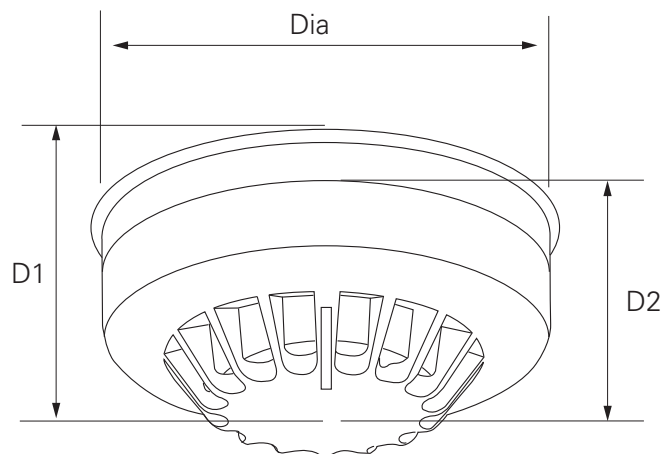
Detector range for BiWire systems

### Technical specification

Code	EFBW5IN1DET
Description	Detector 5 in 1
Standards	EN54 Part 5 & 7 2001
<b>Supply ratings</b>	
Operating voltage	15V DC to 30V DC
Standby current	30µA (max)
Startup current	340µA (max)
Alarm current	25mA (max)
<b>Fixing information</b>	
Mounting position	Ceiling in open areas
Mounting options	Surface mount with FXN520 base
Area coverage	100m <sup>2</sup> (subject to local standards)
System wiring	2 Core
<b>Environmental</b>	
Operating temperature	-20°C to 75°C (dependent on setting)
Humidity (non condensing)	0 to 93%
<b>Physical</b>	
Construction	PC/ABS
Colour	White
Dimensions excl base (dia x depth)	104mm x 42mm
Dimensions incl base (dia x depth)	104mm x 55mm
Ingress protection	IP40
EMC	CE Marked
<b>Compatibility</b>	
Suitable for use with	Eaton's BiWire fire system

<b>EFBWOPTDET</b>	
Operating voltage	15 to 35 V DC
Standby current (max)	80µA
Alarm current (typ)	20mA
Ambient temperature	60°C to -10°C
Relative humidity	0 to 95%
Height (without base)	34mm
Height (with base)	47mm
Diameter	104mm
Weight (without base)	78g
Material	PC/ABS
Colour	White
Compatible base	EFXN520
<b>EFXN520 Base</b>	
Supply voltage	15 to 35 V DC
Cable size	0.5 to 25mm
Mounting hole centres	50 to 80mm
Recommended cable types	FIRETUF or FP200
Applicable standards: EN54-7:2000 +A1:2002 + A2:2006	
Declaration of performance: DoP0437	

### Dimensions



Dia (mm)	D1 (mm)	D2 (mm)
104	55	42

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### Performance

Feature	Optical smoke mode	Photo-thermal mode	Rate of rise mode	Fixed heat 77 °C mode	Fixed heat 92 °C mode
Area coverage (subject to local standards)	100m2	100m2	50m2	50m2	50m2
Heat class	N/A	A2S	A1R	BS	CS
Alarm temperature	N/A	60 °C	60 °C	77 °C	92 °C

### Installation

- Detectors are fixed and wired via common mounting base.
- Cable entry into base can be rear or side.
- A locking facility is provided which can be activated if required to prevent unauthorised detector removal without the use of a special tool.
- Positive click mechanism incorporated to provide clear indication when detector is correctly located in base.

### User interface

- Red LED to indicate alarm condition.
- Amber LED to indicate chamber fault/drift compensation limit.
- All wiring connections are via a common mounting base (supplied separately).

### Catalogue numbers

Description	Code
Detector 5 in 1	EFBW5IN1DET
Optical detector	EFBWOPTDET
Standard base	EFXN520