

## Overview

E630U-2 low-profile plug-in photoelectric detectors measure-up to the quality and performance standards that have made GE fire detection products the industry's best price-performance buy available today. Meticulously engineered to deliver high-performance features, superb reliability, and unbeatable quality, the E630U-2 is a low-cost solution for conventional detection applications.

The E630U-2 distinguishes itself as a performance leader in its class with its highly stable design that resists air movements caused by heating and air conditioning, and changing environmental conditions. This makes it a reliable performer ideally suited to modern building interiors.

The installation and maintenance advantages of the E630U-2 add value to this detector throughout its service life. Its twist-and-lock design makes short work of installation and maintenance operations. A plastic breakout on the detector housing optionally prevents removal from the base except with a special tool.

A bright, easy-to-see LED on the detector glows steady when it is in alarm, thus eliminating much of the guesswork when responding to front-panel indications. If a detector is removed for any reason while the panel is in its normal state, a zone trouble condition will result. This ensures the integrity of the alarm system at all times.

E630U-2 detectors are manufactured to strict international ISO 9001 standards. All electronics employ surface mount technology (SMT) for smaller size and greater immunity to RF noise. A corrosion-resistant conformal coating is used to seal components against dust and humidity.

## Standard Features

- **Sensitive to visible and invisible products of combustion**  
Finely tuned to sense all fire types, especially slow burning, smoldering fires fuelled by combustibles typically found in modern multi-use buildings.
- **Stable, reliable design**  
Uses the light scattering principle for smoke detection and is not affected by air movement.
- **Non-polarized**  
Simplifies installation of field wiring
- **Simple to install, difficult to vandalize**  
Twist-and-lock design saves installation and maintenance time. Field-configurable locking mechanism prevents unauthorized removal.
- **Easy to maintain**  
Removable housing and insect mesh facilitates cleaning.
- **Attractive appearance with clean, modern lines**  
Low-profile design blends easily with surroundings.

## Application

Thanks to its high-performance photoelectric sensor, the E630U-2 responds quickly and reliably to all fire types, especially slow burning fires fuelled by combustibles typically found in modern multi-use buildings. Particles as small as 0.5 microns will be detected by the sensing element, triggering an alarm at the first sign of smoke.

# Low-profile Plug-in Optical Detector E630U-2



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Australia  
T 61 3 9259 4700  
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Europe  
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F 32 2 721 86 13

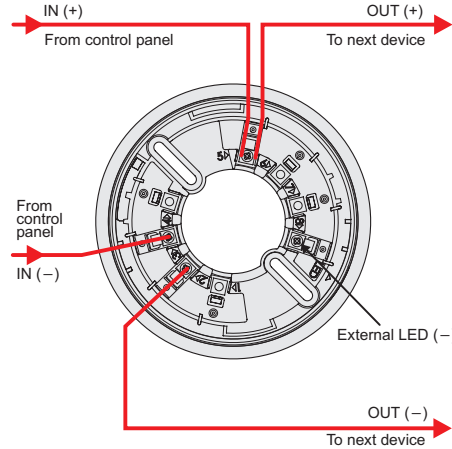
Latin America  
T 305 593 4301  
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## Wiring

E6U-BS1 Standard detector bases provide plug-in tamper-resistant mounting and include screw terminals for connection of installation wires. Bases will accept #18 AWG (0.75mm<sup>2</sup>), #16 (1.0mm<sup>2</sup>), #14 AWG (1.5mm<sup>2</sup>) and #12 AWG (2.5mm<sup>2</sup>) wire sizes.



GE recommends that all detectors be installed according to the latest recognized edition of national and local fire alarm codes.

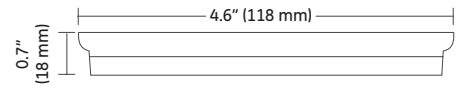
## Mounting

The E6U-BS1 base is provided with slots for screw fixing to either surface wiring plates, or conduit boxes with screw fixing centres between 1.9" (48.3 mm) and 3.5" (89.9 mm).

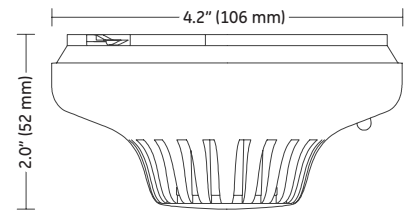


Detectors plug into the base units with a simple twist and lock action. Bases provide ample space to accommodate cables of all types. Terminals are provided inside the moulding for the connection of a remote LED when required.

### E6U-BS1 Base



### Detector



## Specifications

Sensitivity	1.30 to 2.29% obs/ft
Approval	UL
Compatibility	As per listed conventional panels
Mounting	Plugs into surface
Area coverage	900ft <sup>2</sup> (82.81m <sup>2</sup> ), subject to local codes
Wiring	2 wire zonal
Monitoring	Open and short circuit by end of line resistor
Indication	Alarm LED (red)
Detection principle	Photoelectric light scatter
Operating voltage	15 - 30 volts DC
Current (quiescent)	<60µA
Current (alarm)	Max. 50 mA (limited by panel)

Application	Indoor use
EN60529 rating	IP32
Temp range	-4°F to +140°F (-20°C to +60°C)
Humidity range	20% to 95% RH (non condensing)
EMC	CE marked (IEC89/336)
Material	White moulded high impact fire retardant plastic
Dimensions	4.2" (106 mm) Dia x 2.0" (52 mm) H (excluding base)
Height	From ceiling with surface base: 2.4" (60mm)
Colour	White
Weight	2.9 oz (82 g), without base

## Ordering Information

Model	Description	Shipping Wt. lb (kg)
E630U-2	Low-profile Plug-in Optical Detector	0.25 (0.11)
E6U-BS1	Standard detector base	0.11 (0.05)



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