EST Fire & Life Safety Conventional Initiating Devices

Overview

EC30U-3 low-profile plug-in photoelectric detectors measure-up to the quality and performance standards that have made GE Security 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 EC30U-3 is a low-cost solution for conventional detection applications.

The EC30U-3 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 EC30U-3 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.

EC30U-3 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-resistent 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.
- Flexible mounting options
 Compatible standard base mounts to 1-gang, 4" octagonal, BESA, or European single-gang boxes.
- Easy to maintain
 Removable housing and insect mesh facilitates cleaning.
- Attractive appearance with clean, modern lines
 Low-profile design blends easily with surroundings, extending
 less than 2½" (61 mm) from the ceiling, including base.

Application

Thanks to its high-performance photoelectric sensor, the EC30U-3 responds quickly and reliably to all fire types, especially slow burning fires fuelled by combustibles typically found in modern multiuse 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 Photoelectric Detector EC30U-3





GE Security

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Canada T 519 376 2430 F 519 376 7258

Asia T 852 2907 8108 F 852 2142 5063

Australia T 61 3 9259 4700 F 61 3 9259 4799

Europe T 32 2 725 11 20 F 32 2 721 86 13

Latin America T 305 593 4301 F 305 593 4300

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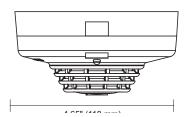
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GE Security recommends that all detectors be installed according to the latest recognized edition of national and local fire alarm codes.

Mounting

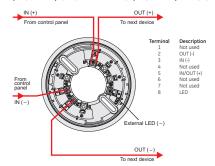
Standard base mounts to the following electrical boxes:

- North American 3½ inch octagon boxes
- North American 4 inch octagon boxes
- North American 1-gang electrical boxes
- European 1-gang boxes with 60.3 mm fixing centers
- European BESA boxes



Wiring

CSBU-1 Standard detector bases provide plug-in tamper-resistant mounting and include screw terminals for connection of installation wires. Bases will accept #18 AWG (0.75mm²), #16 (1.0mm²), #14 AWG (1.5mm²) and #12 AWG (2.5mm²) wire sizes.



Compatibility

Panel	Panel Zone		Maximum Detectors		Zone ID	
model	model	UL	ULC	UL	ULC	
QuickStart	ZA8-2, ZB16-4	40	30	100	100	
EST3	IDC8/4	48	30	00	0.0	
FireShield	CPU	24	24	100	100	

Specifications

Operating Voltage Range	14 - 30 Vdc		
Normal Operating Current	62µA		
Alarm Current	100 mA (max.) limited by control panel		
Sensitivity Range	1.38 - 3.08% obs/ft		
Test Feature	Sensitivity reading using Test/Picker Tool		
Operating Environment			
Temperature	32° F to 100° F (0° C to 38° C)		
Humidity	20 - 95% RH (non condensing)		
Air Velocity	0 - 5,000 ft/min (manufacturer rated)		
	0 - 300 ft/min (UL listed)		
Storage Environment Temperature	32° F to 120° F (0° C to 49° C)		
Maximum Spacing	30 ft (9.1 m) centers		
Construction	White molded high-impact fire-retardant plastic		
UL Compatibility ID	A		
Compatible Bases	See Ordering Information		

Ordering Information

Description	Ship Wt., Ib (kg)	
Low-profile Plug-in Photoelectric Detector	0.25 (0.11)	
Standard detector base		
4" Standard detector base	- 0.11 (0.05)	
4" Detector base with relay	0.11 (0.05)	
Detector base with resistor		
Remote Alarm LED	0.4 (0.18)	
Trim skirt for standard base	0.4 (0.18)	
Detector picker/sensitivity tester	1.4 (0.64)	
	Low-profile Plug-in Photoelectric Detector Standard detector base 4" Standard detector base 4" Detector base with relay Detector base with resistor Remote Alarm LED Trim skirt for standard base	

