

Conventional Fire Alarms

Smoke Detectors

700 Series



The Edwards photoelectric smoke detector is an interchangeable head and base detector with a light-scattering optical sensor. A pulsed infrared LED light source and a high-speed photodiode-sensing element are housed in an omni-directional sensing chamber protected by an insect screen. The chamber is not affected by ambient light. The detector features a field-replaceable optical chamber to simplify cleaning. The 721UT photoelectric detector includes integral fixed temperature heat detectors.

Edwards 700 Series smoke detectors are suitable for use in commercial and industrial environments. If the detector drifts out of its UL Listed sensitivity range or fails internal diagnostics, the alarm LED flashes once a second to indicate trouble. This meets NFPA 72 field sensitivity testing requirements without the need for external meters.

Applying a magnet near the detector's integral reed switch activates a self-diagnostic routine that provides visual indication of sensitivity level, or if service is required.

Built-in drift compensation allows the detector to automatically adjust its sensitivity over time as it becomes dirty.

Features and Specifications

- Self-diagnostic capability continually monitors operation
- Built-in drift compensation
- Field-replaceable optical chamber
- Low-profile design blends into the ceiling
- Advanced nuisance alarm immunity
- Meets NFPA 72 field sensitivity testing without the need for external meters
- Extensive two-wire compatibility listings
- White head and base
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Photoelectric Sensitivity	Number of Terminals	Reset Time	Drift Compensation Adj.	Field Wire Size
Two-wire Self-Diagnostic Smoke Detector	711U	12/24V DC	0.00007 A	0.06 A	2.85%, +0.37, -1.00%	—	1 sec.	1%/ft. max.	—
Two-wire Self-Diagnostic Smoke Detector with Heat	721UT	12/24V DC	0.00007 A	0.06 A	2.85%, +0.37, -1.00%	—	1 sec.	1%/ft. max.	—
Two-wire Self-Diagnostic Smoke Detector Bases	701U	—	—	—	—	3	—	—	18-12 AWG
	702U	—	—	—	—	6	—	—	18-12 AWG

Accessories

Description	Cat. No.
Replacement optical Chambers (pkg. of 10)	211-10PKG



MEA



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Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Height (in.)
711U	0.50	4.0	1.75
721UT	0.50	4.0	1.75
701U	0.25	6.0	0.6
702U	0.25	6.0	0.6
211-10PKG	0.50	—	—