

Conventional Fire Alarms

Beam Detectors

5000 Series

The EC5000R beam detector features a transmitter and receiver in a single enclosure. The transmitter emits an invisible, reflected infrared light beam that is detected by the receiver and analyzed. Smoke in the beam path will reduce the received infrared light proportionally to the density of the smoke. The detector analyzes this and initiates an alarm condition when a predetermined level of obscuration is reached.

The EC5000R System features advanced innovations such as auto-alignment, which indicates the optimal location of the reflector by means of an integrated laser. Once installed, the system automatically steers and maintains the beam to the optimum position for reliable performance.

Features and Specifications

- Range of 26.25 to 330 ft. (8m to 100m)
- Light gray/black ABS housing
- Ground level controller with LCD display
- Up to four detector heads reporting to one controller
- Laser-assisted reflector mounting
- Automatic beam alignment
- Contamination compensation to reduce nuisance alarms
- Building shift compensation
- Separate alarm and trouble contacts
- Built-in electronic UL/ULC obscuration accepted fire test
- Password protected settings
- Programmable fire thresholds
- IP54 rated
- Operating temperature range: 32°F to 100°F (0°C to 37.8°C)



Ordering Information

Description	Cat. No.	Operating Voltage	Current		Relay Contacts	Reset Time	Optical Wavelength
			Standby	Alarm			
Beam Detector	EC5000R	24V DC	0.010 - 0.016 A (low); 0.050 A (high)	0.010 - 0.016 A	1 A @ 30V DC	5 seconds max.	850 nm

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions (In.)								
		Head			Controller			Prism		
		Height	Length	Width	Height	Length	Width	Height	Length	Width
EC5000R	—	5.28	5.31	5.28	3.20	9.25	7.87	0.37	4.13	3.94



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