



## Summary

The CD290 high-performance smoke detectors produced by Sentek are designed for fire detection of environment with some dust and water vapor. The detector adopts the newly developed red/blue double-beam detection chamber of the Sentek, According to the Mie scattering theory, the smoke particle size in the aerosol produces different scattering effects on the red/blue light, and generates different electrical signals through the internal circuit of the product. The sophisticated processing of the software further differentiates the size of the particles in the aerosol to determine the true smoke aerosols and non-smoke aerosols. The product has high sensitivity to fire smoke, has strong anti-interference ability to non-fire aerosols (water vapor, dust, fiber, etc.), it can compensate for detector pollution caused by environmental pollution, and reduces the probability of false alarms. The detector has quick response to smoke, low false alarm rate and long maintenance cycle (maintenance costs less), it is an ideal detector to replace normal smoke detector.

## Features

1. Double beam detection chamber can distinguish aerosol particle size, reduce false alarm.
2. Quick response to real fire smoke.
3. Sensitivity drift zero point compensation function, stable and reliable.
4. Adapt to harsh environment with some dust and water vapor etc.
5. Strong anti-pollution ability.

## Technical parameters

Product model	CD290-4	CD290-4AR
Operating voltage	10~60VDC	
Operating current	Quiescent current: <5mA @24V Alarm current: <30mA @24V	
Sensitivity	0.5~2.5%/ft (UL smoke box, cotton wick)	
Output	Relay (NO/COM/NC) Contact load: 0.5A/30VDC 0.1A/125VAC	
	Not auto-reset (Power off to reset)	Auto-reset (when the ambient smoke concentration is less than 80% of the detector response threshold)
Size	54.1 x $\phi$ 96.4 (with base)	