

# C-1006R DATA SHEET

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## 1 Production Description

C-1006R Smart Reflective Beam Smoke Detector (the detector) is a two-wire conventional reflective beam smoke detector, which is uniquely suited for protecting open areas with high ceilings, where other methods of smoke detection are difficult to install and maintain.

The detector consists of a transmitter/receiver unit and a reflector. When smoke enters the area between the unit and the reflector, the smoke causes a reduction in the signal. When the smoke level reaches the predetermined threshold, an alarm is activated. The detector has three standard sensitivity selections to meet different environment and demands of the users.

The advantage of detector is that it is easier installation and commission. By using hand held programmer, the laser beam pointer can be turn on to help localization. If the detector is powered on, it will automatically adjust itself using advanced software algorithms to choose the optimum parameters for the specific environment.

The detector is ideal for use high ceiling and wide areas such as historic architecture, warehouses, airports, stations, etc.

## 2 Features and Benefits:

1. Wiring convenience, two-bus and non-polarity.
2. Over-voltage Protection, protection of wrong power connection of power supply.
3. Ultra low power, ultra-low standby current and alarm current.
4. Convenient commission, the function of auxiliary positioning and automatic calibration.
5. Three users programming sensitivity adjustment.
6. Auto compensation for factors weakening received signals.

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## 3 Technical Specifications:

<b>PART NUMBER</b>	<b>C-1006R</b>
<b>STANDARD</b>	
Reference Standard:	EN 54-12:2002
<b>GENERAL</b>	
Range:	10 to 100m;
Sensitivity:	37% to 55% Total obscuration in 3 levels Level 1 = 55% (about 2.6dB) High sensitivity Level 2 = 45% (about 3.5dB) Medium sensitivity Level 3 = 37% (about 4.3dB) Low sensitivity
Response Time:	ALARM - 20 seconds typical; FAULT - 30 seconds typical
Alignment Guide	Laser Beam Pointer
<b>ELECTRICAL</b>	
Operating Voltage	24V DC (16V to 28V DC)
Current (at 24VDC)	Standby Current $\leq 2\text{mA}$ Alarm Current $\leq 4\text{mA}$
Relay Capacity (Alarm & FAULT):	Normally Open & Close /0.4A; 40VDC
<b>MECHANICAL</b>	
Material/Color	PA-ABS / Beige
Dimension	L:138mm×W:152mm×H:85mm
Weight	450g (excluding base)
Beam Path Angle	$\pm 0.5^\circ$ Horizontal and Vertical(at 100m)
<b>ENVIRONMENTAL</b>	
Operating Temperature	-10°C~+55°C
Ingress Protection Rating	IP65
Relative Humidity	0% to 95% RH, non-condensing