

# Smoke Detector

# SD - 51



**GASDNA Co.,Ltd** 101, Bukhang-ro 193beon-gil, Seo-gu, Incheon, 22856, Republic of Korea  
Tell: +82-32-584-7420 Fax: +82-32-584-7424 E-mail: sales@gasdna.com Web: www.gasdna.com

<http://www.gasdna.com>

## [ Introduction ]

SD-51, the smoke detector with built-in micro processor, receiving signal from sensor and comparing it with preset alarming value, if it exceeds, transmits the relay output to be connected to PLC/DDC.

Usually, the other smoke detectors designed only for fire alarm cannot be used for industrial use because it cannot secure enough accuracy and stability.

However, SD-51 accommodating highest accurate ionization sensor and industrial detector technology, secures best accuracy and stability at the same time.

## [ Features ]

◆ Low concentrated smoke detection: SD-51 is designed to secure safety for high sensitive industrial automation equipment which should be the best choice for detection up to 1% smoke density.

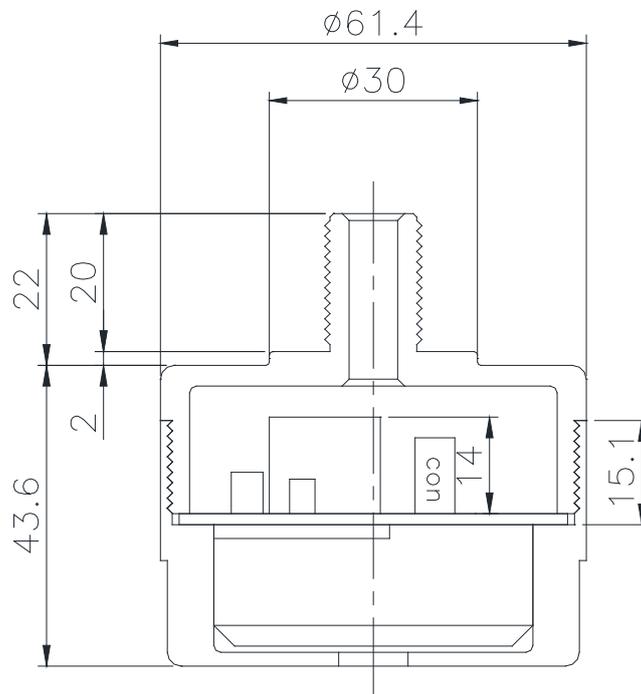
◆ Digital process: Built-in micro processor realizes various artificial intelligent functions which enable optimized detection and alarm system to maximize the detection effectiveness.

◆ Optical sensor : Sensing the slight alterations of electric current in sensing chamber when smoke meets.

## [ Specification ]

Model	SD - 51
Detection principle	Optical smoke chamber
Detection method	Diffusion
Response time	Within 3 seconds
Output	Relay A (DC30V 1A), relay B
Input	DC 22V~26V
Currency consumption	Max 25mA
Housing	Polycarbonate Resin
Operation temperature / humidity	-20℃~ 65℃ / 0 ~ 95% RH (Non-Condensing)
Process	Digital Process

### ■ SENSOR UNIT



## [ Wiring ]

NO	Label	Line color	Usage
1	+	RED	POWER(+24V)
2	-	BLACK	POWER(0V)
3	B	GREEN	NORMAL CLOSE
4	COM	WHITE	RELAY COMMON
5	A	BLUE	NORMAL OPEN
6	E	YELLOW	EARTH

