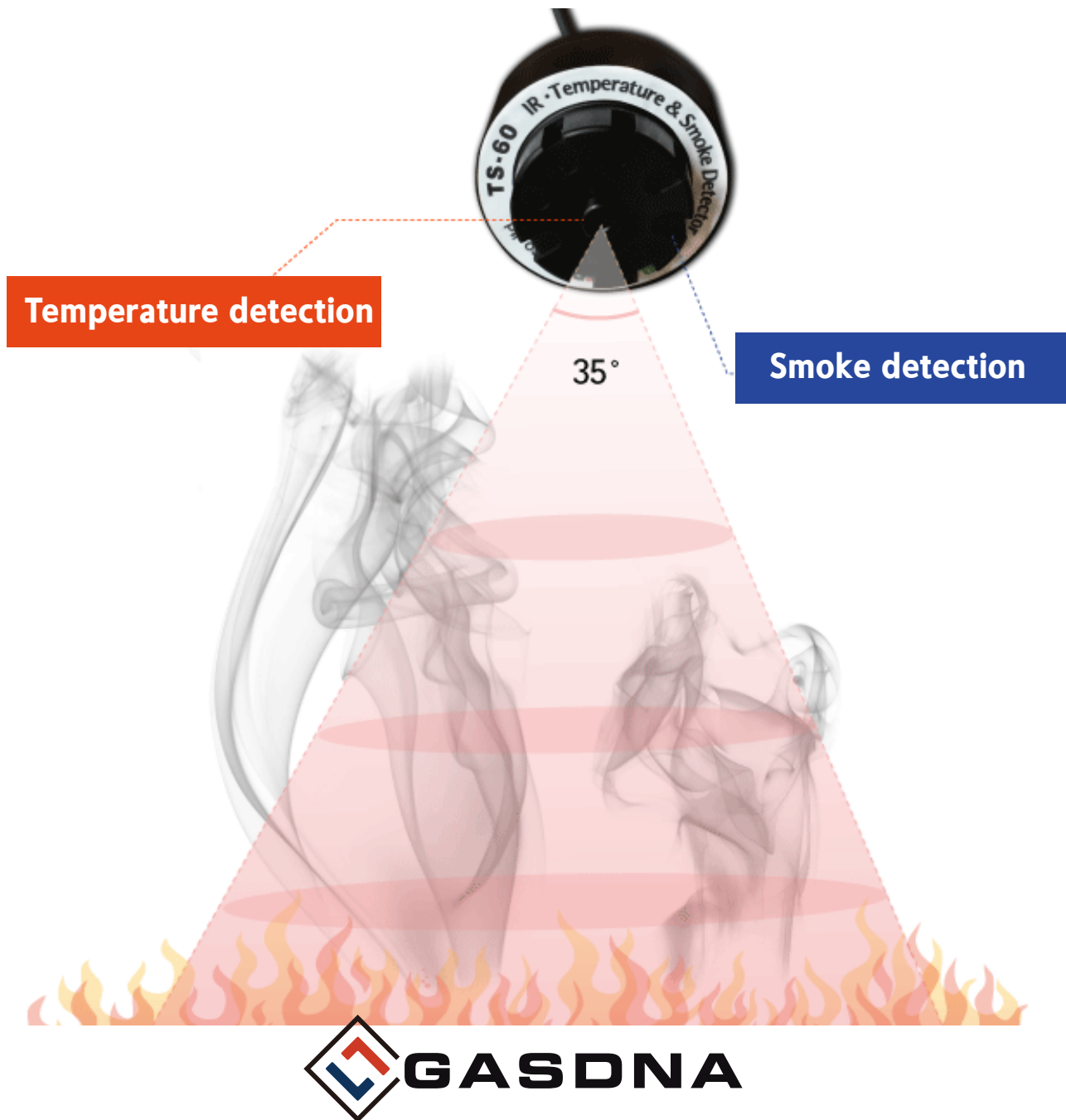


# Non contact Temperature + Smoke Detector

# TS-70



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## [ Introduction ]

TS-70 is built-in Non contact Infrared thermometer and smoke sensor.

The most of existing temperature and smoke sensors in markets can detect fire after the heat reach to temperature and smoke detector.

However, TS-70 detects the fire by increased infrared amount and low concentrated smoke in early stage of the fire and enables to prevent the fire in advance.

## [ Features ]

\_ Non contact Infrared thermometer can measure a wide range of temperature from  $-70^{\circ}\text{C}$  to  $350^{\circ}\text{C}$ '

– Low Concentrated Smoke Detection

It is designed to support the safety of industrial automation precision equipments so that it is suitable for low concentrated smoke detection

– Digital Process

Digital process based on built-in micro processor realizes various artificial intelligent functions which result in more convenient, more accurate, and more efficient detection environment.



▲ fire of switchboard \_ TS-70 minimize the damage by early detecting of these fire.

**[ Specification ]** (Temperature Detection + Smoke Detection)

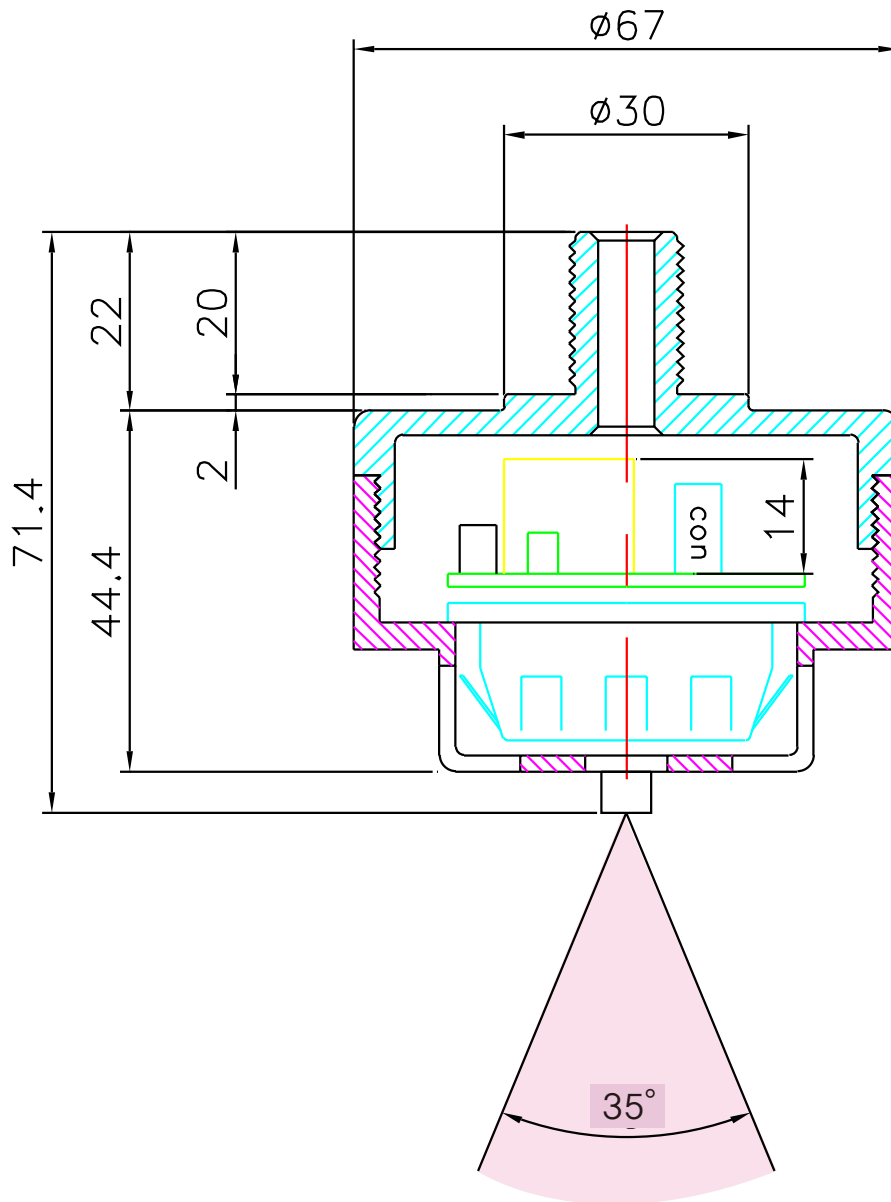
Non contact Infrared thermometer	
Measuring Range	-70 ~ 350℃
Device	Thermopile (Non contact Infrared measurement)
Optical Resolution	35°
Optical Spectrum	8~14 $\mu$ m
Response time	0.3 sec
Relay Output	4-20mA

Smoke sensor	
Detection Principle	Ionizations Smoke Chamber
Detection Method	Diffusion
Response time	Within 3 sec
Relay Output	Relay A (DC30V 1A)
Input power	DC 22V~26V
Current consumption	50mA, Maximum
Operation temperature/humidity	-20℃~ 60℃ / 0 ~ 95% RH (Non-Condensing)
Process	Digital Process

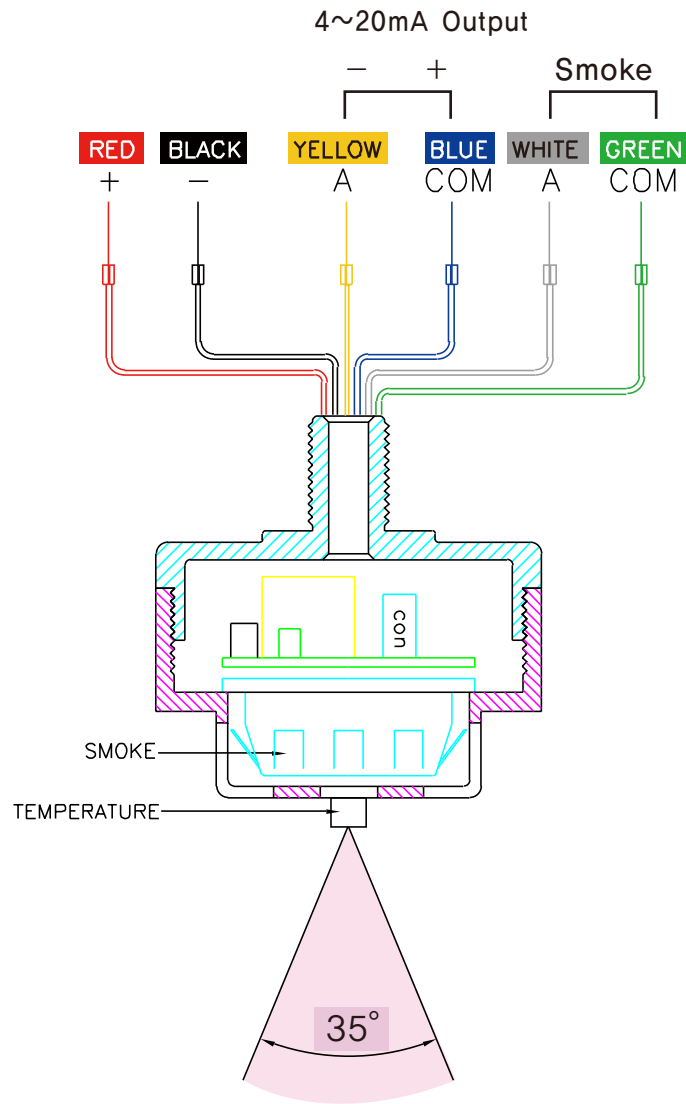
Temperature setting in factory : 50℃



Smoke density : 1%

[ Dimension ]



[ Wiring ]



Color	USE		
<b>RED(+)</b>	POWER(+) : 24VDC		
<b>BLACK(-)</b>	POWER(-) : GND		
<b>YELLOW(A)</b>	-	Temperature	
<b>BLUE(COM)</b>	+	4-20mA Output	
<b>WHITE(A)</b>		NO (NORMAL OPEN)	Smoke
<b>GREEN(COM)</b>		RELAY COM	Relay