

SUT-100



Sepanta Electronic Tabarestan

www.set-control.com

Flame Scanner

A flame scanner detects the existence of a flame inside the combustion chamber, and aims at preventing fuel injection into the combustion chamber in the absence of flame formation. If the flame goes out, the system protection will operate in one second and issue the fuel valve closing command. This action prevents from fuel accumulation in the combustion chamber and possible explosion.



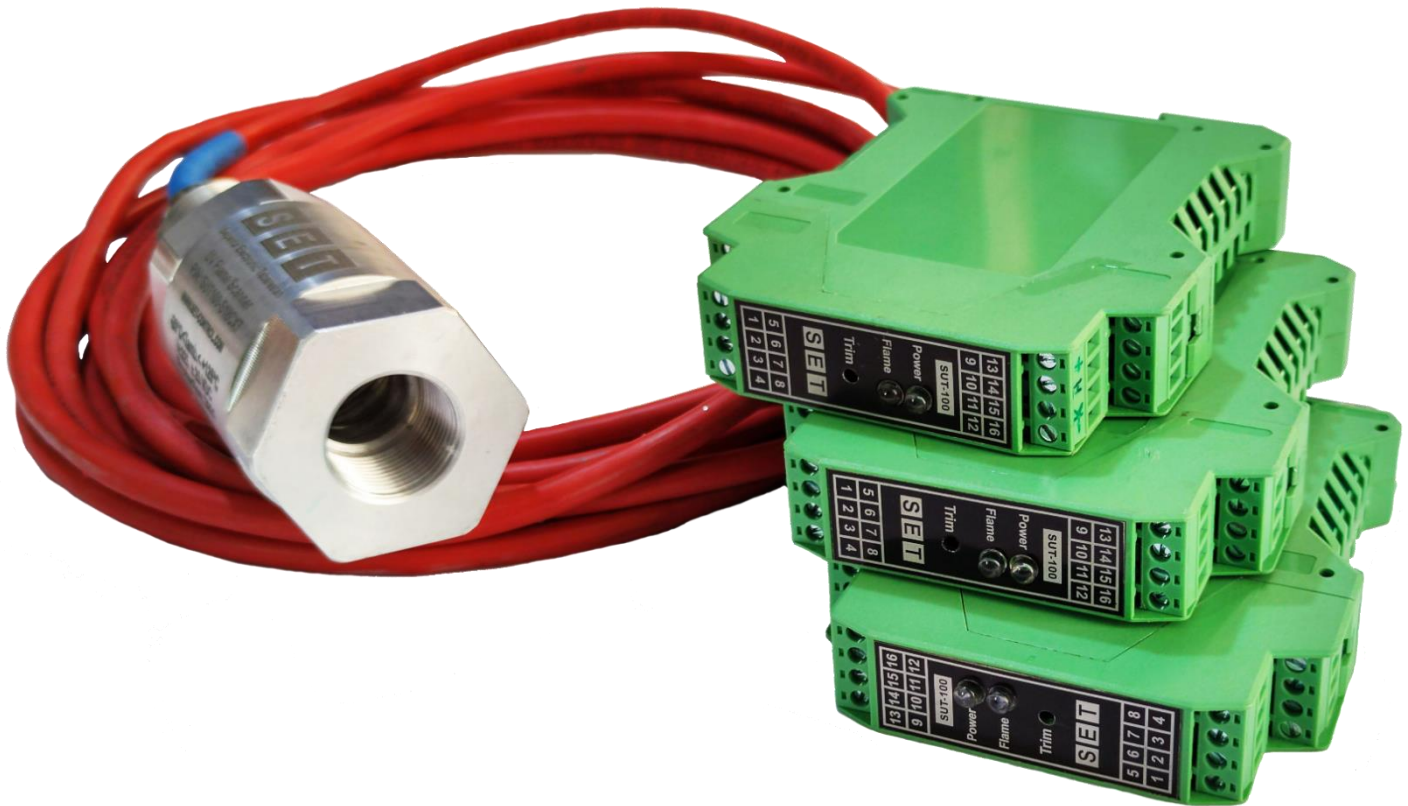
SUT-100 Flame Scanner

Sensor	UV Flame Scanner
Housing	Stainless steel 316
Window	Quartz glass
Mounting	3/4" internal NPT
Cable characteristics	Lead colors: YellowGreen (Body) Brown (+) Blue (-)
Lead length	5m or 10m
Working Temperature (Without Cooling)	-40°C to +100°C (For UV Sensor type 1) -40°C to +150°C (For UV Sensor type 2)
Int. Protection Marking	IP67
Average Spectral Sensitivity	185-260nm
Output	Pulse 100sec ⁻¹ ± 25sec ⁻¹
Background	< 10min ⁻¹
Response Time	< 200ms
Power Requirement	325VDC ± 25VDC (For UV Sensor type 1) 500VDC ± 50VDC (For UV Sensor type 2)



SUT-100 Amplifier

Input Voltage	20 ... 25VDC
Input Current	30 mA (when flame is not detected) 50 mA (While flame is detected)
Output Voltage	325VDC (For UV Sensor type 1) 500VDC (For UV Sensor type 2)
Output Current	Maximum 0.5mA
Working Temperature	-20°C to +70°C
Connector Description	Pin1: Flame Relay N.O. (or Open Collector with 3.3kΩ pulled up resistor)
	Pin2 & Pin3 : Flame Relay COM (or GND)
	Pin4: Flame Relay N.C.
	Pin5 & Pin6 : +24V
	Pin7 & Pin8 : GND
	Pin9 & Pin10 & Pin 11 & Pin12 : Earth
	Pin13 & Pin14 : Anode (+)
	Pin15 & Pin16 : Cathode (-)



Flame Scanner Ordering Table

Part Number	Feature
SUT-100-S18CX7	SUT-100 Flame Scanner with UV sensor type 1
SUT-100-S41CX7	SUT-100 Flame Scanner with UV sensor type 2

Flame Scanner Amplifier Ordering Table

Part Number	Feature
SUT-100-A8D124	SUT-100 Amplifier for UV sensor type 1
SUT-100-A7D124	SUT-100 Amplifier for UV sensor type 2