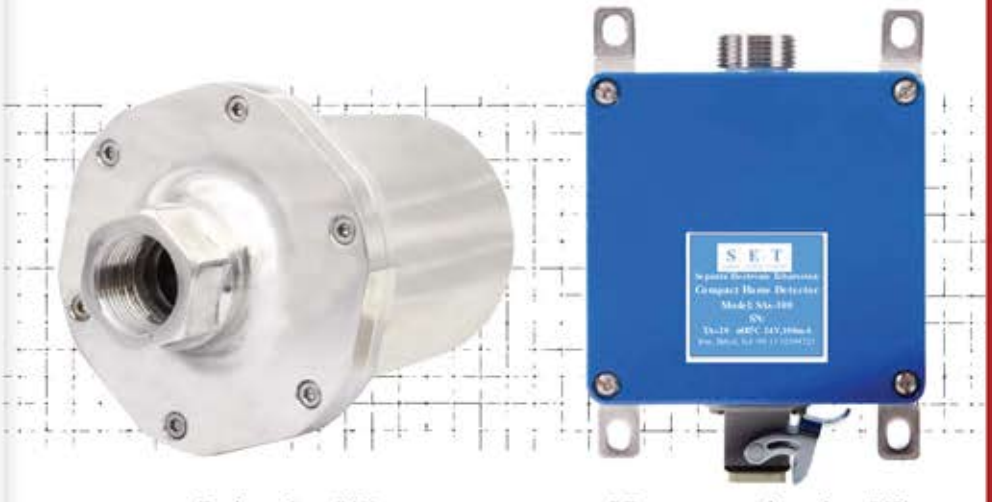
SAx100

Compact Flame Scanner For Industrial Burners

Ultra-Violet And Infra-Red Radiation Technology



Ex-housing (X1) OE-converter housing (X3)

Features

- Compact design, flame sensor and flame analyzer unit in one enclosure
- Wide sensitivity range for ambient temperatures from -20° C up to +85°C (up to 300°C with optical fiber)

Applications

- Power stations
- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Steam generators
- Heating plants

Functional Description

The SAx100 flame scanner analyses flame UV, VIS or IR radiation of a flame, using a digital processor. All spectral ranges are detected by a solid-state photodetector.

Parameters of the flame scanner can be transmitted to a PC via a Isolated RS485 interface.

Flame Scanner Selection

Flame Sensor	Suitable For Fuels					Feature
	GAS	OIL	COAL	WOOD	H2S	
SAx100-S21C??	••	•	•		••	IR photo diode, combustion chamber flame monitoring, ideal for monitoring gas and oil burners which have insufficient UV radiation caused by NOx reducing methods
SAx100-S22C??	•	••	•			UV photo diode, selective monitoring of a burner of oil and gas flames in multi burners chamber with low NOx
SAx100-S23C??	•	•	••	•		Visible photo diode, combustion chamber flame monitoring (coal, oil)
SAx100-S18C??	••	•				UV lamp, monitoring of gas and oil flames

•• ideally suited • well suited

?? => X1: for Ex-housing, X3: for OE-converter-housing

Flame Scanner Features

SAx100-S??C??			
Viewing angle	6°	Sighting tube connection	1" internal thread
Operating voltage	24 V DC(or 110 ... 230VAC), inner electrical isolation	Weight (scanner)	Approximate 1.5 kg
Current consumption	Max 100mA	Ambient temperature range	-20 ... +85°C (up to 300 °C with optical fiber)
Protection class	X1: IP67, Ex db IIC X3:IP66	Serial channel	RS485
Flame relay	SPDT (115 VAC, 0.5 A)	Safety time	1 S

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