# SAx200

## Compact Flame Scanner For All Industrial Burners

### Ultra-Violet And Infra-Red Radiation Technology

## Functional Description

The digital flame detector analyses flame UV-VIS and IR radiation, using a microprocessor. The spectral ranges are detected by a solid state photodetector. The existence of a flame is determined by the amount of the flame flickering. Parameters of the flame monitor can be transmitted to a PC via a isolated RS485 interface.

## Features

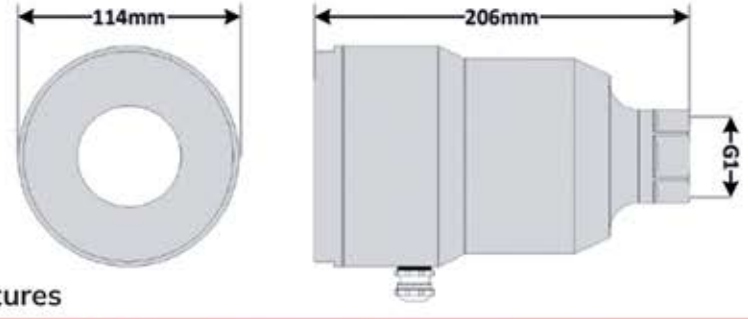
- Compact design, flame sensor and flame analyzer unit in one enclosure
- Wide spectral response range from UV through IR
- Wide sensitivity range
- For ambient temperatures from -20° C up to +70°C
- Measurement of flame intensity
- Measurement of flame flicker frequency
- Measurement of flame brightness

## Flame Scanner Selection

| Flame Sensor | Suitable for fuels | | | | | Feature |
|---|---|---|---|---|---|---|
| | GAS | OIL | COAL | WOOD | H2S | |
| SAx200-S21CX2 | •• | • | • | | •• | IR photo diode, combustion chamber flame monitoring, ideal for monitoring gas and oil burners which have insufficient UV radiation caused by NOx reducing methods |
| SAx200-S22CX2 | • | •• | • | | | UV photo diode, selective monitoring of a single burner of oil and gas flames in multi burners chamber with low NOx combustion |
| SAx200-S23CX2 | • | • | •• | • | | Visible photo diode, combustion chamber flame monitoring (coal, oil) |
| SAx200-S18CX2 | •• | • | | | | UV lamp, monitoring of gas and oil flames |

•• ideally suited • well suited

## Flame Detector Dimension




## Features

| SAx200-S?1CX2 | | | |
|---|---|---|---|
| Viewing angle | 6° | Sighting tube connection | 1" internal thread |
| Operating voltage | 24 VDC | Weight (scanner) | Approximate 2.5 kg |
| Current consumption | Max 170mA | Temperature range | -20 ... +70 °C |
| Protection class | IP67, Ex db IIC | Analogue output | 4 ... 20mA |
| Flame relay | SPDT (115 VAC, 0.5 A) | Serial channel | RS485 |
| Ready relay | SPST (115 VAC, 0.5 A) | Safety time | 1, 2, 3 , 4, 5, 6 S |

## Applications

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

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