



# SAX-200

## Compact Flame Detector for all industrial burners

### Ultra-Violet and Infra-Red radiation technology

#### 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
- Dual channel design throughout
- Measurement of Flame Intensity
- Measurement of flame flicker frequency
- Measurement of flame Brightness

#### Applications

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

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#### Functional description

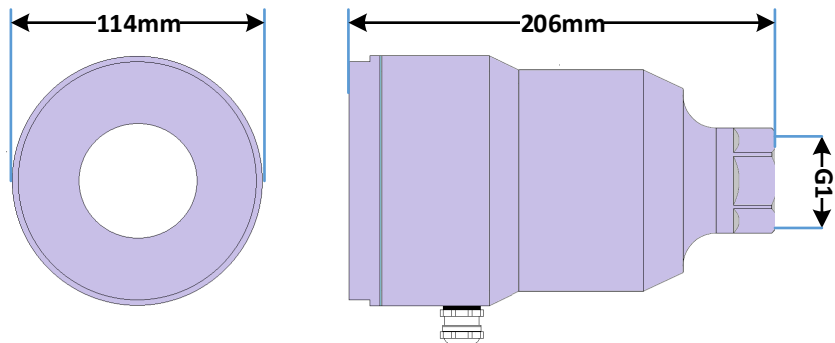
The digital flame detector analyses flame UV-VIS and IR radiation, using A digital 32-bit ARM family processor. Both spectral ranges are detected by a solid state photodetector.

The existence of a flame is determined by the amount of the flame flickering

Flame properties and parameters of the flame monitor can be transmitted to a PC via a Isolated RS485 interface.

#### Connection (Harting Connector)

Cable Number	Function	Cable Number	Function
1	Power supply +24V DC	8	AO+(4 ... 20mA)
2	Power supply GND	9	AO- (4 ... 20mA)
3	Flame Contact N.C.	10	RS485-A
4	Flame Contact COM	11	RS485-B
5	Flame Contact N.O.	12	RS485-GND
6	System Contact	13	Earth
7	System Contact		



<b>Spectral sensitivity</b>	230 to 2700 nm	<b>Sighting tube connection</b>	1" internal thread.
<b>Viewing angle</b>	6°	<b>Purge air connection</b>	1/2" internal thread.
<b>Operating voltage</b>	24 V DC, inner electrical isolation	<b>Ambient temperature range</b>	-20 ... +70°C
<b>Current Consumption</b>	Max 170mA	<b>Time interval of the data storage</b>	15 S
<b>Protection Class (Scanner)</b>	IP67	<b>Purging air pressure</b>	0.02 bar over combustion chamber inner pressure
<b>Flame relay</b>	NO contact, 230 VAC, 0.5 A	<b>Weight (Scanner)</b>	approximate 2.5 kg
<b>Safety time</b>	1, 2, 3, 4, 5, 6 S	<b>Length of cable</b>	Max 500m