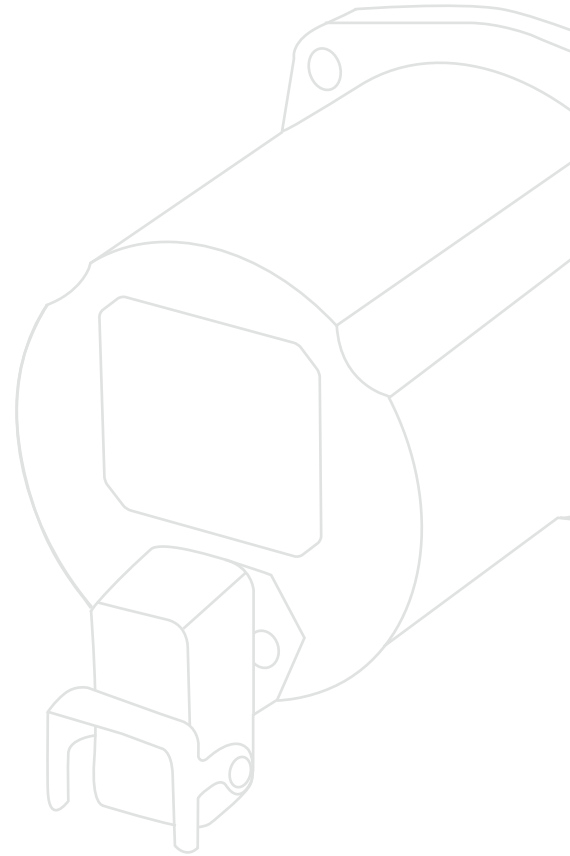




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Product Information

FLAME SCANNER 2.0



- failsafe design
- suitable for continuous operation
- use at ambient temperatures from -40 °C to +85 °C
(optional fiber optic insert up to 300 °C)
- approved according to international standards
- protection class IP65/IP66
- IECEx-certified

1 | Design

The Flame Scanner 2.0 forms a complete flame monitoring system in combination with a flame amplifier of the 3000 series. The flame monitoring and evaluation system 3000 was developed under the aspects of safety and optimal availability of customer plants.

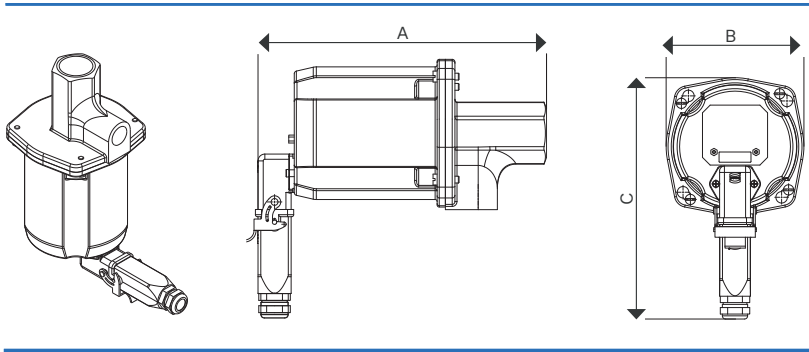
Our goals are to monitor incinerators safely and reliably, to provide criteria for optimizing the incineration process and to reduce pollutant emissions. The system is able to distinguish the flames of different burners and to selectively monitor them.

2 | Customer benefits and usage

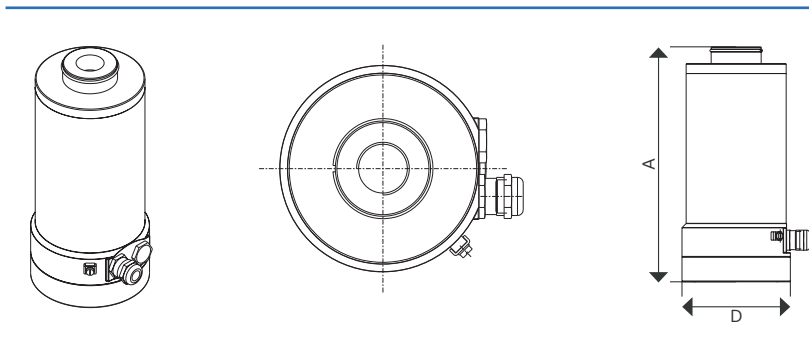
- self monitoring to control fault free function
- selective monitoring of gas and oil firing systems
- dual sensor Si and PbS
- separately adjustable sensitivity of Si and PbS sensor
- fully electronic design

3 | Housing versions

The Flame Scanner 2.0 is available in two housing variants for direct installation on the burner.



ATEX Zone 2	
Standard housing	
Length A:	235 mm
Width B:	108 mm
Height C:	190 mm
Weight:	1.5 kg
IECEX TUR 15.0029X	



ATEX Zone 1	
Ex-housing	
Length A:	290 mm
Diameter D:	130 mm
Weight:	5.0 kg
IECEX EPS 14.0042X	

4 | Technical data

Spectral sensitivities	combination of UV + IR (300 nm to 2700 nm)
Power supply	24 V DC
Current consumption	max. 200 mA each Flame Scanner
Self checking	fully electronic, once per second
Angle of view	2.7°
Sight port connection	G 1" female thread
Purge air connection	G 1/2" female thread

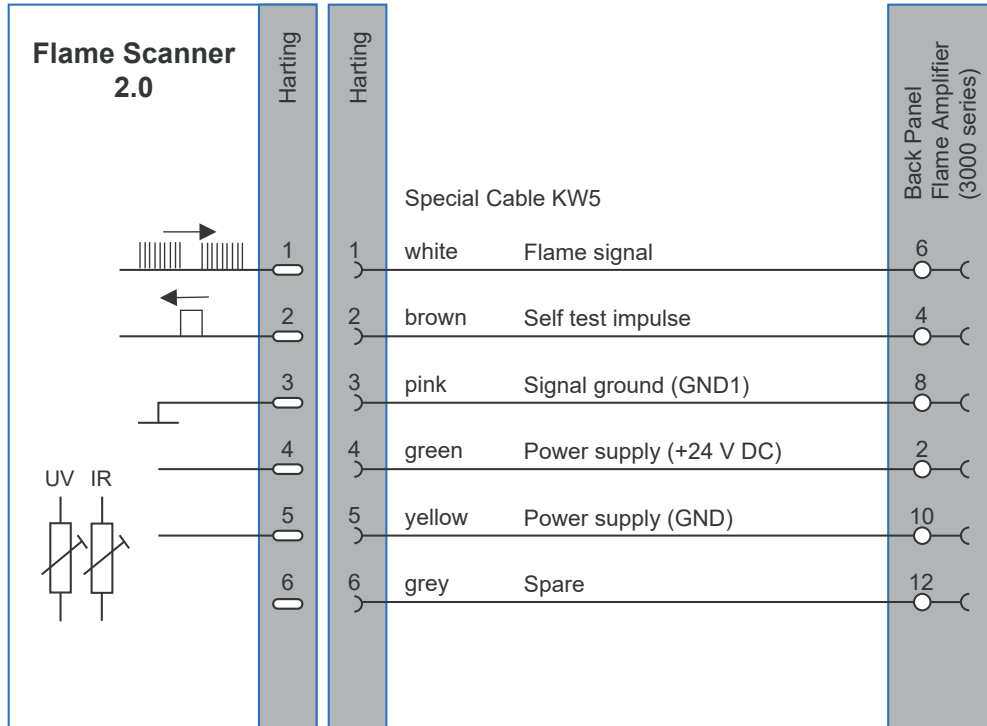
ATEX Zone 1

ATEX Marking	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Ambient temperature	-20 °C to +70 °C
Type of protection	IP66

ATEX Zone 2

ATEX Marking	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T100°C Dc
Ambient temperature	-40 °C to +85 °C
Type of protection	IP65

5 | Connection diagram



6 | Part number

Type	Part number
Flame Scanner 2.0	6010-2031-00



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All data are without guarantee and refer to the product group. Product-specific information is contained in the operating instructions. We reserve the right to make technical changes. | © BFI Automation Mindermann GmbH 2023/09

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