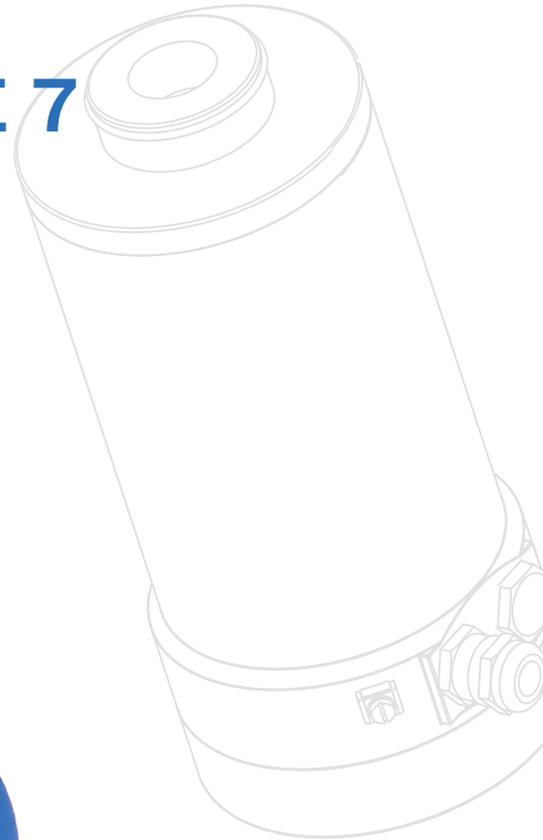


Product Information

FLAME SCANNER TYPE 7

7.0 / 7.0/2 / 7.1 (EX)



- failsafe design
- suitable for continuous operation
- use at ambient temperatures from -40 °C to +70 °C
- approved according to international standards
- protection class IP 65/IP66
- IECEx-certified

1 | Design

The Flame Scanner Type 3 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.

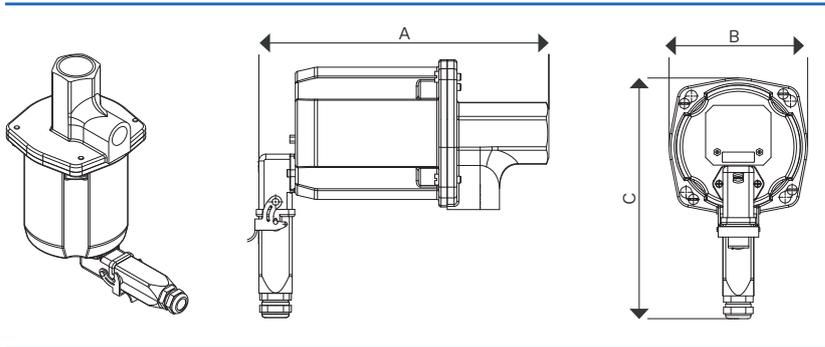
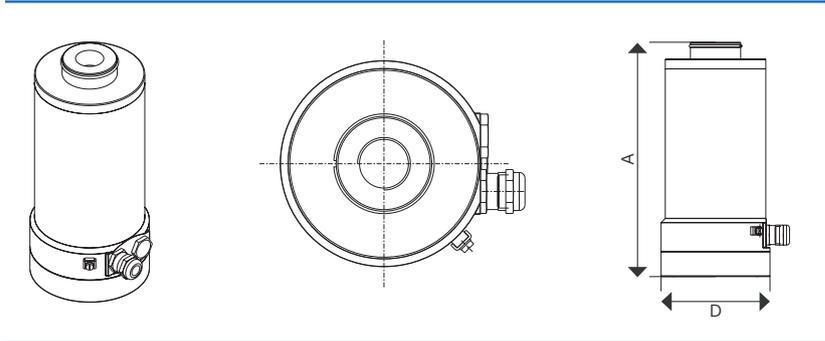
Our goals are to monitor incinerators safely and reliably, to provide criteria for optimizing the incineration process and to reduce pollutant emissions. The system is able to safely monitor the flames of residue combustion such as H₂S, blast furnace gas or waste gases.

2 | Customer benefits and usage

- Self-control to verify flawless function of the device
- Temperature difference method
- Monitoring of residual combustions
- Thermo couple sensors
- Fully electronic construction
- Spectral analyzing process
- Tested by the German Technical Inspection Association TÜV
- IECEx certified
- SIL 2

3 | Housing versions

The Flame Scanner Type 7 is available in different housings for ATEX Zone 1 and 2.

	<table border="1"> <thead> <tr> <th colspan="2">ATEX Zone 2</th> </tr> <tr> <th colspan="2">Standard housing</th> </tr> </thead> <tbody> <tr> <td>Length A:</td> <td>235 mm</td> </tr> <tr> <td>Width B:</td> <td>108 mm</td> </tr> <tr> <td>Height C:</td> <td>190 mm</td> </tr> <tr> <td>Weight:</td> <td>1.5 kg</td> </tr> <tr> <td>Type:</td> <td>7.x</td> </tr> </tbody> </table>	ATEX Zone 2		Standard housing		Length A:	235 mm	Width B:	108 mm	Height C:	190 mm	Weight:	1.5 kg	Type:	7.x
ATEX Zone 2															
Standard housing															
Length A:	235 mm														
Width B:	108 mm														
Height C:	190 mm														
Weight:	1.5 kg														
Type:	7.x														
	<table border="1"> <thead> <tr> <th colspan="2">ATEX Zone 1</th> </tr> <tr> <th colspan="2">Ex-de-housing</th> </tr> </thead> <tbody> <tr> <td>Length A:</td> <td>290 mm</td> </tr> <tr> <td>Ø D:</td> <td>130 mm</td> </tr> <tr> <td>Weight:</td> <td>5 kg</td> </tr> <tr> <td>Type:</td> <td>7.xEX</td> </tr> </tbody> </table>	ATEX Zone 1		Ex-de-housing		Length A:	290 mm	Ø D:	130 mm	Weight:	5 kg	Type:	7.xEX		
ATEX Zone 1															
Ex-de-housing															
Length A:	290 mm														
Ø D:	130 mm														
Weight:	5 kg														
Type:	7.xEX														

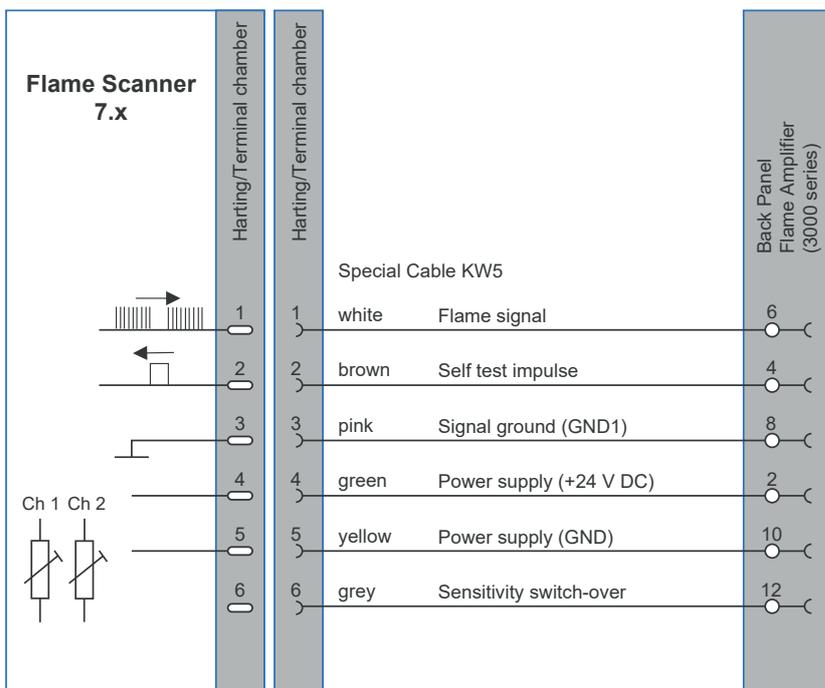
4 | Technical data

Spectral sensitivity With special lens	1050 nm bis 2700 nm 1050 nm bis 7000 nm
Angle of view With aperture	2,7° 1°, 2° or 2,7°
Self checking	fully electronic, once per second
Power supply	24 VDC
Current consumption Including heating	max. 200 mA max. 700 mA
Ambient temperature Standard housing (not EAC approved) Ex-de-housing (EAC approved)	-20 °C to +70 °C -40 °C to +60 °C
Electrical connection Standard housing Ex-de-housing	dustproof plug-type connector terminal blocks
Type of protection Standard housing Ex-de-housing	IP 65 IP 66
Cable length	max. 400 m
Sight port connection	1" female thread
Purge air Connection Volume Pressure	½" female thread 10 m³/h 0,02 bar over combustion chamber internal pressure
CE	CE0063
IECEX Zone 1 Ex-de-housing Zone 2 Standard housing	IECEX EPS 14.0042X IECEX TUR 15.0029X
ATEX Zone 1 Ex-de-housing Zone 2 Standard housing	EPS 14 ATEX 1 696 X TÜV 15 ATEX 7682 X
EAC Zone 1 Ex-de-housing Zone 2 Standard housing	EA9C RU-DE.BH02.B.00177/19 TC RU C-DE.IM43.B.00536

5 | Connection diagram

When using a heater, our KW6 cable must be used. The connection diagram is extended by terminals 7 and 8.

- 7 - Power supply (+24 V DC) blue
- 8 - Power supply (GND) red





BFI Automation

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 GmbH 17.02.25

BFI Automation GmbH

Ruegenstr. 7

42579 Heiligenhaus . Germany

T +49 2056 989 46-0

info@bfi-automation.de

www.bfi-automation.com