



System overview

Flame Monitoring Device F120I

Flame Monitoring Device F120I.

Ionisation-based flame monitoring.

The F120I Flame Monitoring Device is an ionisationtype flame scanner, a safety device for monitoring pilot or main flames of gaseous fuels. It operates using the ionisation method for continuous and intermittend operation with an ionisation auxiliary voltage of 390 V.

Due to its measurement method, the F120I Flame Monitoring Device can be used for the selective monitoring of individual flames on single and multi-burner systems.

Design and function

The F120I Flame Monitoring Device consists of a housing with integrated control electronics and is designed for din rail mounting in the control cabinet.

Field of application

The F120I Flame Monitoring Device provides operators of industrial combustion plants, the chemical industry and power stations with a reliable Flame Monitoring Device that meets SIL 3 requirements.

Special features

The F120I is not intended for the direct shut-down of fuel valves. Further signal processing of the safe output contact must take place in the higher-level control system of the respective combustion system.

Approvals

CE 0036

(EU) 2016/426 Gas Appliances Regulation (GAR)

CE 0036

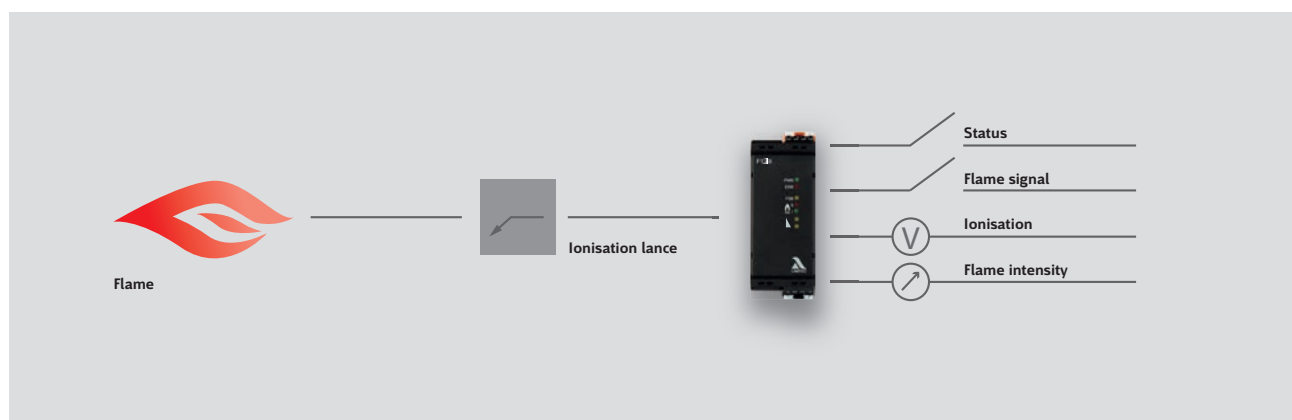
2014/68/EU (Pressure Equipment Directive Kat. 4 Mod. B+D (PED)

SIL 3

SIL 3 confirmation, DIN EN 61508 Parts 1 and 2



UL is in progress



Function overview.

Summary:

- Suitable for single burners in heating plants and process combustion systems
- Approved for continuous operation
- Ionisation auxiliary voltage 390 V
- Suitable for fuels such as oil, gas, biomass, dust and process gases
- Plug-in module for din rail mounting
- Two-channel system with electronic self-monitoring
- The F120I Flame Monitoring Device is designed for mounting in a control cabinet
- Status indicators via LED
- SIL 3 in accordance with DIN EN 61508-Parts 1 and 2
- Meets the requirements of DIN EN 298 for gas and oil operation and DIN EN 746-2 for process plants
- Complies with 2014/68/EU (Pressure Equipment Directive) and (EU) 2016/426 (Gas Appliances Regulation)
- No adaptation to country-specific mains frequencies necessary, masking takes place on a dynamic basis
- Available ex-works with a power supply voltage of 230 VAC or 115 VAC

Inputs.

Ionisation lance

Power supply 230 VAC /
115 VAC

Flame Monitoring Device F120I

Outputs.

Digital: Status

Digital: Flame signal

Relay contact: Flame signal

Analogue: Ionisation voltage

Analogue: Flame intensity
(4 ... 20 mA)



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