

## Flame sensor

Flame sensor for monitoring gas, oil and coal flames, primarily in single burner view applications

### Features

- Self-monitoring and fail-safe in conjunction with a control unit/ burner control
- Flame sensors for every spectral range of flame monitoring from UV to IR
- Connection to D-UG 120 and D-UG 660 control unit as well as D-GF 150 (-MB) burner control
- Uniform output signal thus mutually interchangeable
- Compliant to general safety regulations

### Applications

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

### Certifications

- DVGW
- UL 372
- FM Class 7610
- AGA: AS 4625
- EAC
- SIL3



D-LE 103

### Functional description

The photo element in the flame sensor generates a signal which is proportional to the flame radiation intensity. The output signal of the flame sensor is used as an input signal to a control unit or a burner control.

The D-LE 103 flame sensor is available with different photo elements for optimal selectivity when using different fuels.

### Models

- Cable gland (-CG)
- Axial plug (-P)

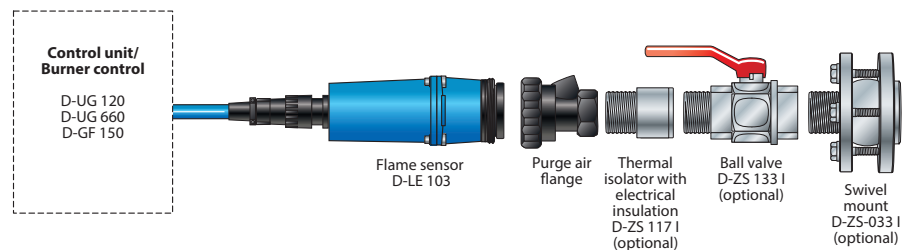
### Accessories

- **Optical adjustment aid** for alignment of the swivel mount on the sighting tube (D-ZS 118)
- **UV-C test light source** 230 V/ 50 Hz (D-ZS 077-10)
- **UV-A, UV-B und IR test light source** 230 V/ 50 Hz (D-ZS 093)
- **Swivel Mount** for alignment of flame sensor to the flame to be monitored
- **Thermal isolator** with electrical insulation
- **Ball valve** for closing sighting tube
- **Terminal box** for connecting flame sensor (D-ZS 140)

### Flame sensor selection

Flame sensor	Suitability for fuels			
	Gas	Oil	Coal	Wood
D-LE 103 UL	++	+		
D-LE 103 UAF	o	++		
D-LE 103 UA	+	++	o	+
D-LE 103 IS	!	++	++	+
D-LE 103 IG	o	++	++	++

++ ideally suited + well suited o conditionally suited ! not permitted (from experience)



<b>Operational mode</b>	Intermittent operation, continuous operation and 72-hour operation without permanent supervision	<b>Viewing angle</b>	6°
<b>Safety</b>	self-monitoring and fail-safe in conjunction with a control unit/ burner control	<b>Perm. ambient temperature</b>	-20°C to +60°C
<b>Protection</b>	with cable gland (D-LE 103 ...-CG) IP65 with axial plug (D-LE 103 ...-P) IP67	<b>Dimensions</b>	Ø 80 mm, length approx. 350 mm
<b>Gain</b>	pre-set	<b>Weight</b>	approx. 1 kg
<b>High-pass filter</b>	pre-set	<b>Sighting tube connection</b>	G 1¼"
<b>Spectral ranges</b>	UV, VIS, IR	<b>Purge air connection</b>	G ½"