



- ◆ The ultraviolet flame sensor is used for the detection of fires with open flames and arcs in potentially explosive areas
- ◆ The sensor responds to the ultraviolet portion of the flame radiation mainly contained in the flame borders, in the range 185 to 235 nm (UV-C radiation)
- ◆ **Well suited for detecting:**  
Open flames without smoke development, arcs, for example, on insulators
- ◆ **The sensor does not respond to:**  
Sunlight, light bulbs, fluorescent lights, flying sparks
- ◆ **Caution! False tripping possible with:**  
UV radiating light sources, e.g., halogen and mercury vapor lamps, lightning, arcs during welding work and reflections of the above radiation sources
- ◆ **Application limits:**  
Smoke, dust and water vapor, as well as contamination of the UV panes on the sensor absorb ultraviolet radiation and therefore negatively effect the response behavior of the sensor.

**Technical data:**

**Ultraviolet flame sensors UV-01.1ex**

<b>Operating voltage</b>	15...30 VDC	<b>Dimensions</b>	Ø: 42mm l=127 mm
<b>Operating current at 24V</b>	< 120µA		
<b>Alarm current at 24VDC</b>	45mA	<b>Weight without cable</b>	850g
<b>Alarm resistor two-line technology</b>	560Ω		
<b>Alarm pulse without latching</b>	approx. 1 s	<b>Weight with cable</b>	2,600g
<b>Trigger delay</b>	min. 100 ms	<b>Sensitivity</b> (set to 2 cm gas flame from 3 mm tube, 30%prop. 70%But.)	80 cm < 1 s
<b>Spectral sensitivity</b>	185...235 nm		
<b>Viewing angle without ventilation</b>	approx. 75°	<b>Options:</b>	
<b>Temperature range</b>	-20...+70°C		
<b>Housing safety class</b>	IP65		
<b>Special features</b>	- Metal housing pressure-tight encapsulated T80°C		II 2G EEx d IIC T6 II 2D IP66

