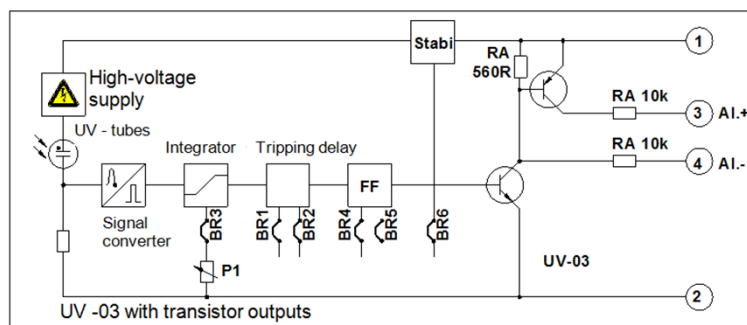




- ◆ The ultraviolet flame sensor is used for the detection of fires with open flames and arcs
- ◆ The sensor responds to the ultraviolet portion of the flame radiation mainly contained in the flame borders, in the range 185 to 235 nm (UV-C radiation)
- ◆ **Well suited for detecting:**  
Open flames without 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-03			
Operating voltage	12...30 VDC	Dimensions without ventilation	98 x 64 x 35 mm
Operating current at 24V	< 50 µA	Dimensions with ventilation	98 x 64 x 54 mm
Alarm current at 24VDC	45mA	Weight without ventilation	300g
Alarm resistor two-line technology	560Ω	Weight with ventilation	350g
Alarm resistor multi-wire technology	10 k		
Alarm pulse without latching	approx. 1 s		
Trigger delay	200 ms, 2 s, 4 s, 6 s		
Spectral sensitivity	185...235 nm	Sensitivity (set to 2 cm gas flame from 3 mm tube, 30%prop. 70%But.)	80 cm < 1 s
Viewing angle without ventilation	approx. 110°		
Viewing angle with ventilation	approx. 35°		
Connection for ventilation	0.1...1bar	Options:	
Temperature range	-20...+60°C	potential-free relay contact, normally closed/normally open contacts, Photo-	0,5 A / 30 VDC
Housing safety class	IP65		
Special features	Detectors are equipped with special glasses with outstanding oil ,water and dust repellent characteristic, in most cases an air flushing is unnecessary.		



Tripping delay	200 m sec.	:BR.1 OFF	BR.2 OFF	with Latching	:BR4 ON
The flame must be detected during this time	2 sec	BR.1 ON	BR.2 OFF	without Latching	BR4 OFF
uninterrupted	4 sec	BR.1 OFF	BR.2 ON		BR5 without function
	6 sec	BR.1 ON	BR.2 ON		
Sensitivity	maximum set with P o.t. P1:	BR3 OFF		Operating voltage	12 V DC :BR6 ON
		BR3 ON			24 V DC :BR6 OFF

