UV-01.1

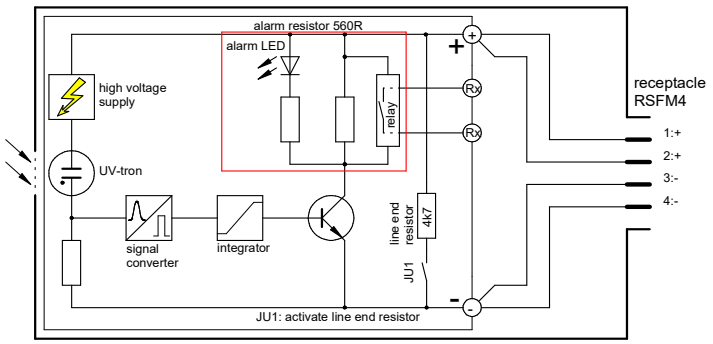
Ultraviolet flame sensor

Elektronik für den Brandschutz
BRANDTRONIK

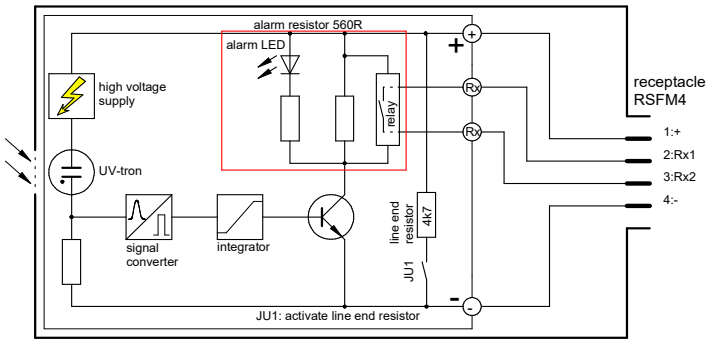
- The ultraviolet flame sensor is used for the detection of fires with open flames and arcs
- The sensor responds to the ultraviolet portion of the flame radiation mainly contained in the flame borders, in the range 185 to 235 nm (UV-C radiation)
- **Well suited for detecting:**
  Open flames without smoke development, arcs, for example, on insulators
- **The sensor does no 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 refections 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-01.1			
Operating voltage	15...30 VDC	**Dimensions without ventilation and without plug**	Ø: 40mm l= 77 mm
Operating current at 24V	< 120µA		
Alarm current at 24VDC	45mA	**Dimensions with ventilation and without plug**	Ø: 40mm l= 95 mm
Alarm resistor two-line technology	560Ω		
Alarm pulse without latching	approx. 1 s	**Weight without ventilation**	110g
Trigger delay	min. 100 ms	**Weight with ventilation**	140g
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℃	potential-free relay contact, normally closed/normally open contacts, Photo-MOS-Relay	**0,5 A / 30 VDC**
Housing safety class	IP65		
Special features	Detectors are equiped with special glases with outstanding oil ,water and dust repellent characteristic, in most cases an air flushing is unnecessary.		



UV-detector UV-01.1 standard without alarm relay



UV-detector UV-01.1.Rx with alarm relay

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