January 2011



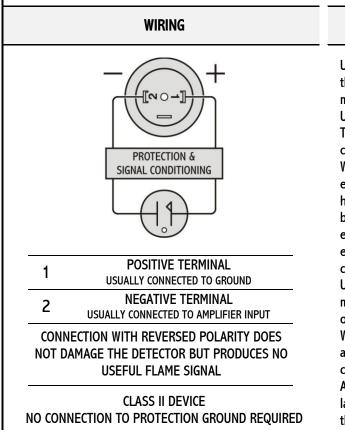
UV4sH

COMPACT HI-SENSITIVITY UV FLAME DETECTOR

TECHNICAL DATA

 Spectral response 	185÷260 nm
Operating voltage	200÷280 Vac
Discharge current	1 mA
Peak discharge current	30 mA
Recovery time	20 μ S @ 10% duty cycle
 Operating temperature 	-25÷125 °C
Peepsight maximum temperature	e 125 °C
Max Vibration allowed	0,5 G
Relative humidity	NON CONDENSING $10\div90\%$
Thermal insulating case	∅ 35 x 80 mm
Protection class EN60529	IP65
Electrical connection DIN43650 -	A/ISO4400 3 pole socket
Wire gauge	2 x 1,5 mm ²
 Mechanical connection 	3⁄4" gas
Optional cooling connection	1⁄4" gas
Mounting position	Any
 Weight 	150 д мах
 Operating life 	10.000 hours @ 50°C/1mA
UP TO 100.000 HOURS @ 25°C AND COUPLED WITH CONTRIVE DEVICES	

§ Avoid vertical top mounting when combustion products can fill the volume in front of the phototube producing malfunctions.



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DVGW type certification No. CE-0085BM0346 Certified by Gosstandart pursuant to GOST-R

APPLICATION

UV4SH is an high performance selected UV detector that can be used for flame detection in gas, oil and mixed burners together with suitable Burner Control Unit or Flame Amplifier Device.

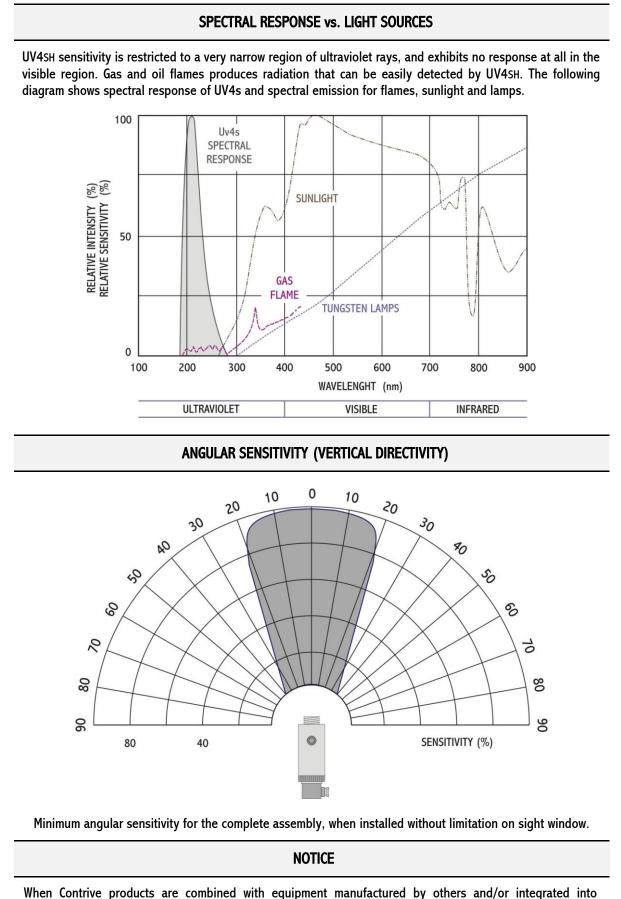
The core component is a glass bulb filled with gas, containing two electrodes.

When appropriate voltage is applied between electrodes, if an ultraviolet electromagnetic radiation hits the phototube, electrons emitted by negative biased electrode can be captured by positive biased electrode, starting an ionization process leading an electric discharge between electrodes producing a current flow.

UV4s is a compact unit for industrial use, the body is made by thermal isolating material to avoid sensor overheating when applied on the burner head.

When the temperature at peepsight exceed 70°C it's advisable to apply a cooling air flow to the special connection provided on the side of the probe.

Although UV4SH is blind to sunlight, some discharge lamps produces UV emission that can be detected by the phototube.



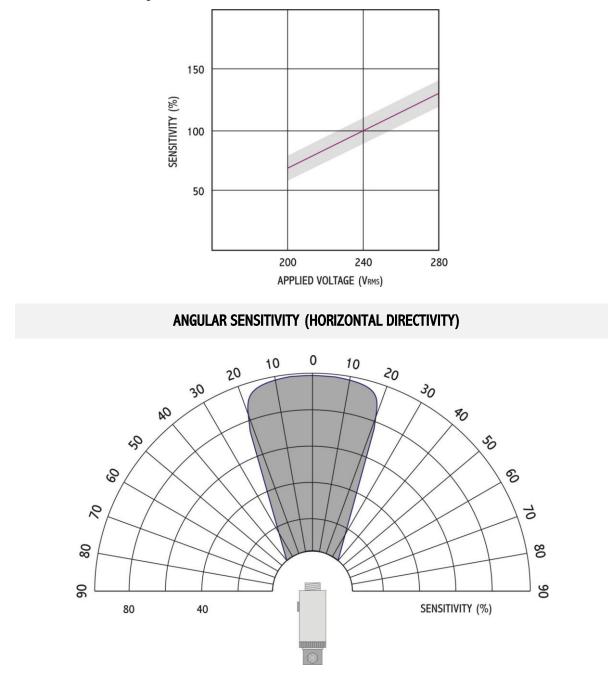
When Contrive products are combined with equipment manufactured by others and/or integrated into systems designed or manufactured by others, the Contrive warranty pertains only to Contrive products and not to any other equipment or to the combined system or its overall performance. Certification could be invalid or not applicable in such cases.

UV4sH. High performance UV flame detector

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SENSITIVITY vs. SUPPLY VOLTAGE

The flame detector increase his sensitivity with higher operating voltages, the relationship is shown in the above diagram. It's very important to keep the applied voltage within the recommended range to avoid malfunctions and damages.



Minimum angular sensitivity for the complete assembly, when installed without limitation on sight window.

WARRANTIES

Contrive guarantees for two years from the date of manufacture of its product to replace, or, at its option, to repair any product or part thereof (except fuses and with some limitations for tubes and photocells) which is found defective in material or workmanship or which otherwise fails to conform to the description of its sales order. Contrive makes no warranty of merchantability or any other warranty express or implied. In no event shall Contrive be liable for consequential or special damages of any nature which may arise in connection with such products.

