R.K. Instruments & Controls

TECHNICAL DATASHEET

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UV Flame Sensor — Ultraviolet Flame Detector Scanner Probe

Brand: R.K. Instruments & Controls | Category: UV FLAME DETECTORS

Specifications

Device Type	**Ultraviolet (UV) Flame Phototube Scanner / Optical Flame Detector Probe**
Sensing Element	**Gas-Filled UV Phototube / UVtron Sensor (Side Quartz Viewing Window)**
Viewing Orientation	**Side-Viewing / Radial Optical Window**
Housing Material	**Stainless Steel / Aluminium Alloy Cylindrical Body**
Mounting / Fitting	**Integrated Flange, Knurled Locking Collar & Threaded Gland Fitting for**
Cable Connection	**2-Core Heat-Resistant Shielded Industrial Cable, Sealed Rear Gland**
Lead Terminations	**Pre-Stripped 2-Wire Leads (Red / Black)**
Spectral Sensitivity Range	**190nm to 290nm (Solar-Blind UV)**
Application	**Flame Monitoring & Safeguard — Industrial Gas, Light Oil & Dual-Fuel**
Ambient Operating Temperature	**-20°C to +70°C**



Description

R.K. Instruments & Controls supplies this UV Flame Sensor, an ultraviolet (UV) flame phototube scanner / optical flame detector probe used for flame monitoring and safeguard on industrial gas, light oil and dual-fuel burners and gas-train combustion systems. The sensing element is a gas-filled UV phototube (UVtron-type sensor), visible through a side-viewing quartz window, giving a radial optical field of view suited to side-mounted sight-tube installation. The housing is a stainless steel / aluminium-alloy cylindrical body with an integrated mounting flange, knurled locking collar and threaded gland fitting for secure burner sight-tube mounting. Cable connection is via a 2-core heat-resistant shielded industrial cable with a sealed rear cable-gland entry, terminating in pre-stripped 2-wire leads (Red/Black). Spectral sensitivity spans 190nm to 290nm — the solar-blind UV spectrum — so the sensor responds to genuine flame UV emission while remaining unaffected by daylight or hot refractory glow, preventing false flame signals. Ambient operating temperature range is -20°C to +70°C, standard industrial rating, suited to continuous flame-safeguard duty across gas, oil and dual-fuel burner installations.

Typical media compatibility: CNG, PNG, LPG, Air, Nitrogen — confirm against application before installation.