R.K. Instruments & Controls

TECHNICAL DATASHEET

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UV Flame Relay — Ultraviolet Flame Sensor Module

Brand: R.K. Instruments & Controls | Category: FLAME RELAY

Specifications

Product Type	**UV (Ultraviolet) Flame Sensor Relay Module**
Operating Voltage	**230V AC, 50Hz**
Input Sensing Type	**UV Sensor / UV Flame Scanner Tube (Ultraviolet Radiation Principle)**
Output Contacts	**2 Potential-Free Changeover Contacts (2×SPDT / 2 C/O)**
Mounting	**DIN-Rail or Panel Surface Mount**
Status Indicators	**POWER (Red LED — Mains On) · FLAME (Green LED — Valid**
Output Terminals	**Top Row: 2× NO-C-NC Potential-Free Contact Groups**
Supply & Sensor Terminals	**Bottom Row: L/N Mains Input · FLAME SENSOR / EARTH UV Sensor**
Manufacturer	**R.K. Instruments & Controls**



Description

R.K. Instruments & Controls manufactures this UV Flame Relay, a UV (ultraviolet) flame sensor module used for flame monitoring and supervision in industrial gas and oil burners. Unlike an ionization-rod relay, it senses the ultraviolet radiation emitted by a flame through a dedicated UV flame sensor/scanner tube, making it suitable for applications where flame-rod (ionization) detection is unreliable — such as flames with low ionization current, certain oil/LPG flames, or installations needing faster, line-of-sight flame recognition. The unit operates on 230V AC, 50Hz, and provides 2 independent potential-free changeover contact sets (2×SPDT / 2 C/O) — one set for burner-run status/safety-valve interlock, the second for remote PLC signalling or auxiliary interlocks. The unit is DIN-rail or panel-surface mountable, with POWER (red LED, illuminates on mains-on) and FLAME (green LED, illuminates on valid flame signal) visual status indicators on the front face, exactly as marked on the unit. Wiring: the top terminal row carries the two NO-C-NC output contact groups; the bottom row carries L/N mains supply input and the FLAME SENSOR / EARTH sensor input, with FLAME SENSOR connecting to the external UV flame sensor/scanner tube aimed at the flame and EARTH connecting to the burner body/chassis ground. Exact power consumption, response time and contact current rating should be confirmed against RKIC's current datasheet for this UV variant, since these were not printed on the available nameplate photo.

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