





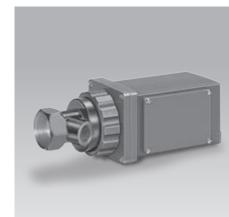
UV sensors for continuous operation UVD 1, UVD 2

// Enhanced availability thanks to adjustable flame sensitivity

- // Virtually interference-immune operation owing to insensitivity to daylight, infrared radiation and incandescent bulbs
- Easy operation with LED display of operating states
- // Fail-safe software and hardware







UVD for monitoring gas burners in continuous operation

Roller hearth kiln

Application

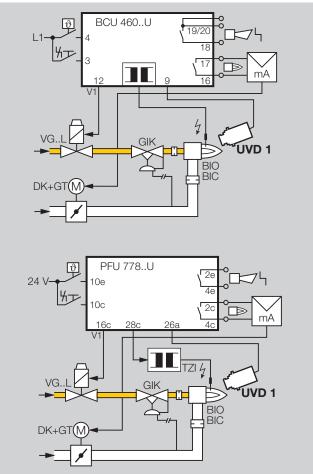
For monitoring gas burners of unlimited capacity with or without fan, on hot-air furnaces, gas-fired boilers, industrial furnaces and excess-gas flaring installations in continuous operation. The burners can either be ignited directly or operated as pilot and main burners.

UVS 1 for flame control only in conjunction with Kromschröder automatic burner control units BCU 370..U1, BCU 460..U, BCU 480.. U or PFU..U for continuous UV control.

UVD 2 with floating switching contact for flame control with fail-safe, programmable logic control in continuous operation. Not suitable for use in conjunction with Kromschröder automatic burner control units.



Example applications

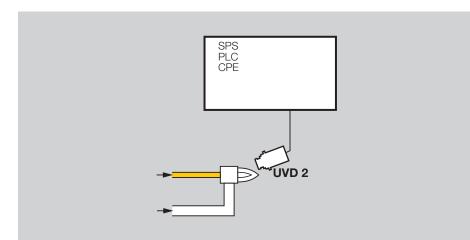


UVD 1

In conjunction with automatic burner control units BCU 460..U, BCU 480..U or PFU..U, the UVD 1 monitors gas burners in continuous operation.



If the burner is controlled by a fail-safe PLC, UVD 2 can be used for flame control. It features a switching contact which closes as soon as the UV sensor detects a flame.





Technical data UVD 1, UVD 2:

Spectral sensitivity: 185-260 nm. Supply voltage: 24 V DC, ±20 %, approx. 5 W. Current output: 0-20 mA, Load impedance: max. 150 Ω . Enclosure: IP 65 (with mounted housing cover only). Fuses in unit: F1: 0.315 A, slow-acting, miniature fuse pursuant to IEC 60127-3/4; F2: 0.5 A, slow-acting, miniature fuse pursuant to IEC 60127-3/4. Electrical connection: 1 mm². Viewing tube connection: Rp 11/4. Purge air connection: Rp 1/2. Ambient temperature: -20 to +60°C, no condensation permitted. Weight: Approx. 1.8 kg. Sensitivity: adjustable in 10 steps. Reset button. Analogue output: 0-20 mA for external indication of flame intensity, Socket (7-pin) supplied. LEDs: for indication of standby, fault and flame signal. UVD 1: Cable length on BCU max. 5 m, max. 50 m on PFU. UVD 2: Switching power of the flame signalling contact: max. 24 V DC; 0.5 A or 250 V AC; 0.5 A; $\cos \varphi = 0.4$ (inductive load). Safety time: 1 s.

The UV sensor has a floating circuit between power supply circuit (24 V DC) and the device-internal voltage circuit. The current output is electrically connected to the device-internal voltage.

Certification

UV sensors UVD 1 and UVD 2 comply with the Low Voltage Directive 73/23/EEC, the EMC Directive 89/336/EEC and the standard EN 298. (F

Maintenance cycles

Service life of the UV tube: 10,000 to 50,000 operating hours. The UV tube with shutter unit must then be exchanged after this period.

Detailed information on this product

www.kromschroeder.com

Contact www.kromschroeder.com → Sales

We reserve the right to make technical modifications in the interests of progress.

Kromschröder uses environment-friendly production methods. Please send away for our Environment Report. G. Kromschröder AG Postfach 2809 D-49018 Osnabrück Tel. +49 (0)541 1214-0

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