



UVC 1

**PL SIL CE** **UV flame detector UVC 1**

- Enhanced flexibility thanks to adjustable switch-off threshold
- Virtually immune to interference during operation due to its insensitivity to daylight, infrared radiation and incandescent bulbs
- High operational safety thanks to self-test
- For systems up to SIL 3 pursuant to EN 61508 and continuous operation to EN 298



## Application

UV flame detector UVC 1 is used to monitor gas burners of unlimited capacity with or without a fan. It can be used on hot-air furnaces, gas-fired boilers, industrial furnaces and excess-gas flaring installations. The gas burners can either be ignited directly or operated as pilot and main burners.

The UV flame detector is suitable for intermittent or continuous operation in conjunction with Kromschroder burner control units BCU 370..U, BCU 4xx..U, PFU 7xx..U or BCU 5xx..U0.

Using the BCSOFT program, the switch-off threshold can be parameterized and the analysis and diagnostic information can be read from the flame detector via the optionally available opto-adaptor PCO 200 or 300.

## Type code

Code	Description
UVC	UV flame detector
1	Series 1
D	Quartz glass heat guard
L	Quartz glass heat guard lens
0	Rp 1/2 internal thread
1	Rp 1/2 internal thread with cooling air connection
2	NPT 1/2 internal thread
3	NPT 1/2 internal thread with cooling air connection
G1	M20 cable gland
A	100 – 230 V AC, 50/60 Hz
Q	120 V AC, 50/60 Hz

## Technical data

### Electrical data

Mains voltage (terminals L and N):  
 UVC..A: 100 to 230 V AC, 50/60 Hz,  
 UVC..Q: 120 V AC, 50/60 Hz.

Length of cable between UV flame detector and automatic burner control unit:

min. 2 m,

max. 100 m (note the specifications for the connected burner control unit).

Distance between UV flame detector and flame:  
 300 to 400 mm.

UV tube: P578,  
 spectral range: 190 to 270 nm,  
 max. sensitivity: 210 nm ± 10 nm.

Designed lifetime of the UV tube:  
 approx. 10,000 operating hours.

Min. DC signal: 1 µA.

### Mechanical data

Housing: aluminium.

Cable gland for cable diameters of 7 to 13 mm.

Clamping range of the connection terminals:  
 0.5 to 1.5 mm<sup>2</sup> (AWG 26 to AWG 16).

Weight: 1 kg.

### Environment

Ambient temperature: -20 to +80°C (-4 to +176°F).

Storage temperature: -20 to +80°C (-4 to +176°F).

Enclosure: IP 65.

## Technical Information bulletin for this product

www.docuthek.com

Search term: UVC 1

## Contact

www.kromschroeder.com → Process Heat → Sales

Elster GmbH  
 Strothweg 1 · 49504 Lotte (Büren)  
 Germany

Tel. +49 541 1214-0  
 hts.lotte@honeywell.com  
 www.kromschroeder.com

We reserve the right to make technical modifications in the interests of progress.  
 Copyright © 2017 Elster GmbH  
 All rights reserved.

**Honeywell**  
**kromschroder**