

# SYSTEM 3000

## **ADAPTER UNITS**

### **320x**

## TECHNICAL DESCRIPTION

EDITION TB\_320x\_EN\_REV 3

## Adapter units 320x

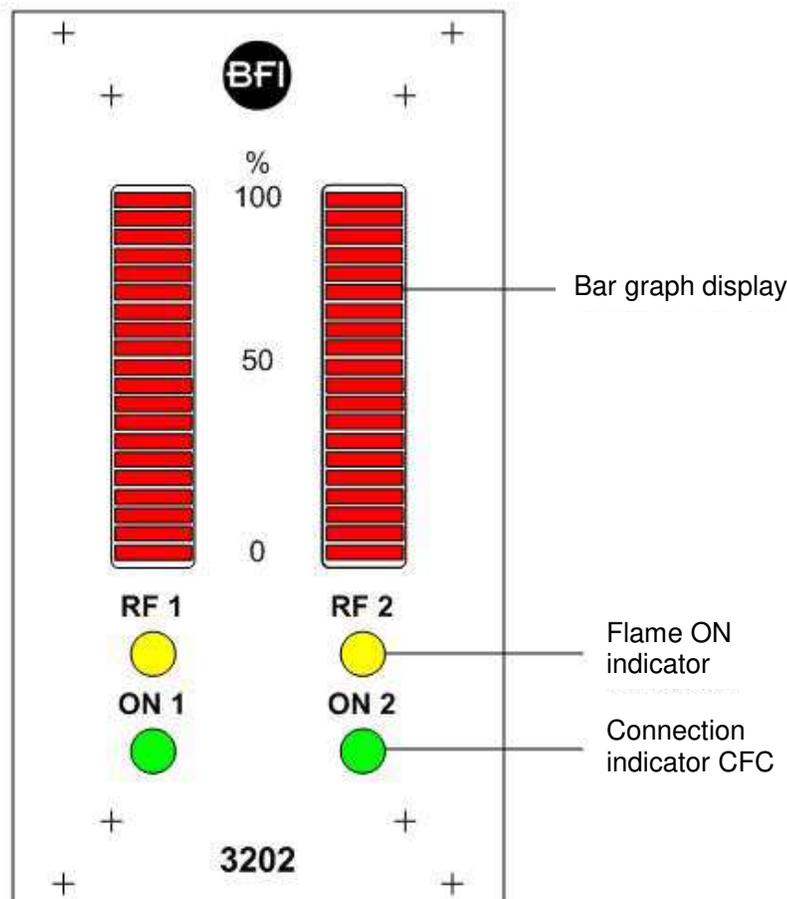
- Precise intensity indication
- Relay signalling indication
- Connection indication of the CFC
- LED bar graph
- Higher switching power relays

### Application

The adapter units 320x are used for a connection of the new CFC generation e.g. CFC2000 to the existing BFI system 3000. These modules displace the flame amplifier module 3001, 3001D without changing any wire connection. They are available without bar graph (3200.1/3200.2), with

one bar graph (3201) or with two bar graphs (3202). The adapter units 3200.2 and 3202 allows to connect 2 CFC x000 instead of 2 BFI flame scanners and one flame amplifier 3001/3001D. Both relays are able to switch higher power than the built in relays of the CFC.

### Front view



**Available adapter units**



**ADAPTER UNIT 3200.1**



**ADAPTER UNIT 3200.2**



**ADAPTER UNIT 3201**



**ADAPTER UNIT 3202**

## Function

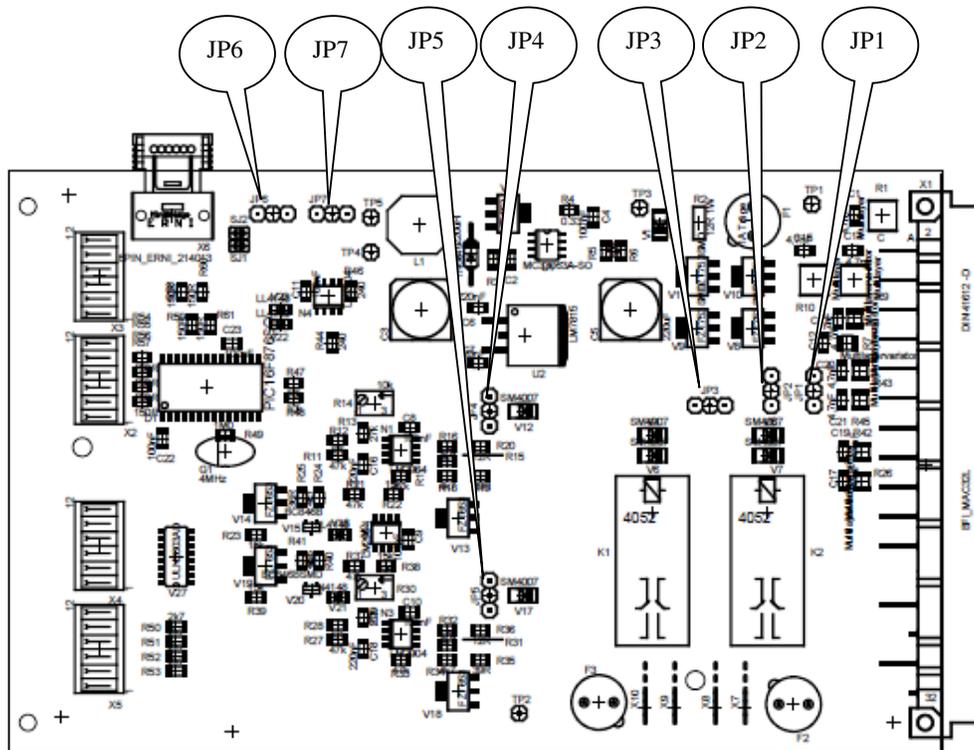
The current output of the 320x can be switched over by jumper JP6 from 0-20mA (right position) to 4-20mA (left position). Depending on the current output of the CFC the microcontroller of the 320x calculates the lightning elements on the bar graph display and provides the output signal to the burner management system.

By switching the Jumper JP4 (CFC1) and Jumper JP5 (CFC2) to the upper position a voltage signal are generated and in the lower position a current signal.

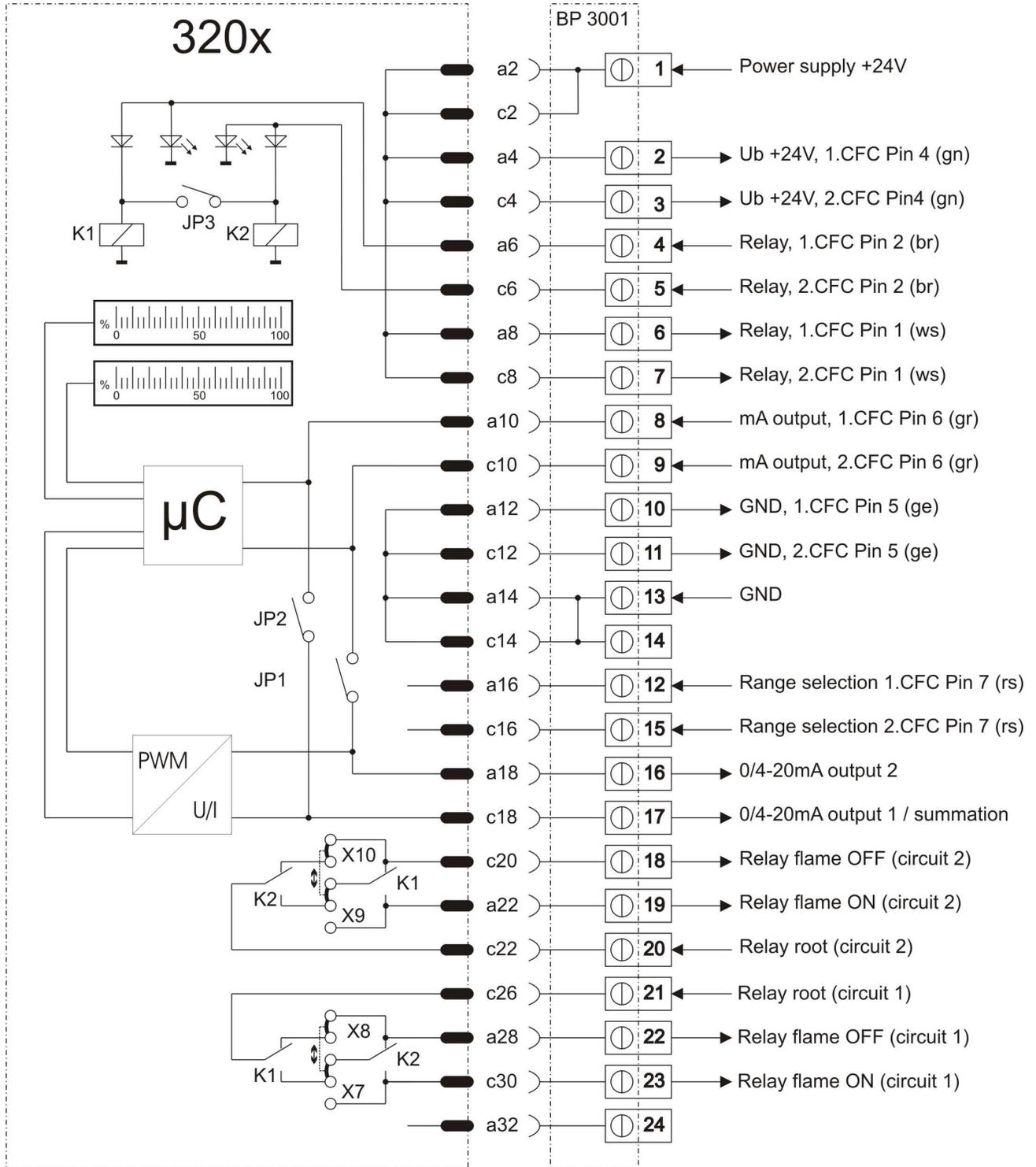
Jumper JP7 in left position will summate the signals of both CFCs and shows the intensity on the left bar graph display. In right position the signals of two CFCs will displayed separately.

By putting Jumper JP3 in left position both relays will be operated by only on CFC. In right position the relays will work by each connected CFC.

By using Jumper JP1 and JP2 in upper position the current outputs of the CFCs are connected directly to the outputs of the adapter unit. In this case the bar graph displays and the selection of the output signals are without function. With both Jumpers in lower position the output signal(s) will be generated by the 320x. The correct connection of the CFC is shown by the green LED(s) and the on-state of the flame relay is shown by the yellow LED(s).



### CONNECTION DIAGRAM



### Technical data

Flame relay	2 change-over contacts
Flame intensity display	0 – 100% LED bar graph
Flame intensity output	0(4) – 20 mA, (R <sub>a</sub> <800 Ω)
Status indication:	
Connection indicator CFC	„ON“= green LED
Flame relay indicator	„ON“= yellow LED
Power supply:	24V DC
Current consumption:	approx. 700mA
Ambient temperature range	-20°C / +60°C
Class of protection:	IP00
Weight:	350 g
Part- no.:	
Adapter unit 3200.1	G663.01 without bar graph display for 1 CFC
Adapter unit 3200.2	G663.02 without bar graph display for 2 CFCs
Adapter unit 3201	G663.1 with 1 bar graph display for 1 CFC
Adapter unit 3202	G663.2 with 2 bar graph displays for 2 CFCs
Applied for safety circuit:	VDE 0110, class C
Max. switching voltage:	250V
Max. switching current:	1A
Max. switching power:	300VA

The adapter units 320x are pluggable for 19" magazines in accordance with DIN 41494 (19"- Norm).

Width:	70.78 mm = 14 HP
Height:	128.7 mm = 3 U
Depth:	188.0 mm



