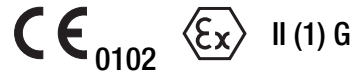


# SIRAX BP 902

## Backplane for plug-in SIRAX modules

### Ex and non-Ex version



### Application

The backplane **SIRAX BP 902-111/211** (Fig. 1) is designed for one plug-in SIRAX module.

The backplanes **SIRAX BP 902-181/281** (Figs. 2 to 4) are designed for up to 8 plug-in modules.

They establish the connections between the modules and the system of which it is part.

Two quick fasteners secure the device mechanically to the backplane and ensure good electrical contact.

The backplane snaps onto a top-hat rail conforming to EN 50 022.

To avoid the possibility of inserting the wrong SIRAX module by mistake, each type of device has its own unique code.

Backplanes in version [EEx ia] may only be used for connecting the correspondingly certified devices manufactured by Camille Bauer Ltd.

Refer to the type test certificate of the device inserted into holder for the electrical data.



Fig. 1. Backplane type BP 902-111/211.



Fig. 2. Backplane type BP 902-181/281.

### Variants

#### Backplanes in standard version (Non-Ex)

Number of slots	Electrical connections	Order Code	Order No.
1	Screw terminals	902 - 111	120 038
8		902 - 181	120 054

#### Backplanes in version [EEx ia] IIC

Number of slots	Electrical connections	Order Code	Order No.
1	Screw terminals	902 - 211	120 046
8		902 - 281	120 062

### Technical data

#### Backplane

Operating voltage:	Non-Ex version	230 V AC/DC
	Ex version	230 V AC/125 V DC

Electrical connections:

**Screw terminals** with fixed coding, with wire guards, for max. 2 × 0.75 mm<sup>2</sup> or 1 × 2.5 mm<sup>2</sup> acc. to EN 60 947-7-1

Edge connectors:

96-pin acc. to DIN 41 612, pattern C

Coding strips:

For code inserts

Power supply fuse:

1.6 AT (short-circuit protection for 8 channel backplane)

#### Installation data

Mounting:

For fixing onto top-hat rail (35 × 15 mm or 35 × 7.5 mm) acc. to EN 50 022

Mounting position:

Any

#### Standards

Protection (acc. to

IEC 529 resp. EN 60 529): IP 20

Test voltages:

3.7 kV, power supply versus measuring output and measuring input

2.3 kV, all outputs versus each other and all inputs versus each other

# SIRAX BP 902

## Backplane for plug-in SIRAX modules

### Mechanical coding of the backplane

To avoid the possibility of inserting the wrong SIRAX module by mistake, each type of device has its own unique code.

Plug the sets of code (standard accessories) into the locations given in Table 1 columns C to M into the coding strip of the backplane.

Table 1: Coding of the backplane

Instrument types (SIRAX plug-in module)	Works		Coding peg positions												
	set- tings		Code positions to be set by the user												
	A	B	C	D	E	F	G	H	I	K	L	M			
V 644-6	X	X	X		X									X	
PT 602-6	X	X	X					X	X						
SV 814-6	X	X	X			X	X								
SV 824-6	X	X	X				X							X	
SD 810-6.1 (14V)	X	X	X					X		X					
SD 810-6.2 (18V)	X	X	X						X		X				
TV 808-61/-62	X	X	X					X						X	
TV 808-615/6/7/8	X	X	X						X					X	
TI 807-6 (non-Ex)	X	X	X			X				X					
TI 807-6 (output Ex)	X	X	X			X				X					
TI 807-6 (input Ex)	X	X	X						X	X					
SI 815-6	X	X	X			X							X		
B 811-6	X	X	X			X		X							
C 402-6	X	X	X					X					X		

X in columns C to M means:

– acc. to type – sets of code must be inserted in these positions in the coding strip for the particular type of device.

X in column A:

Ex versions of the backplane are supplied ex works with a set of code already inserted in position A of the coding strip.

X in column B:

All backplanes are supplied ex works with a set of code fitted in position B of the coding strip. (It prevents SIRAX plug-in modules with a low power supply from being inserted in slots with a high power supply).

### Electrical connections

The connections between the plug-in module and the external terminals on the backplane are given in wiring diagrams contained in the operating instructions for every SIRAX plug-in module. Please request the documents you need.

### Order No. of the Operating Instructions

(in three languages: German, French, English)

Number of slots	Electrical connections	Order Code	Order No.
1	Screw terminals	902-111/211	122 309
8		902-181/281	130 667

Table 2: Data on explosion protection  II (1) G

Order Code	Type of protection	Type examination certificate	Mounting location of the instrument
902 - 211 902 - 281	[EEx ia] IIC	PTB 97 ATEX 2113	<b>Outside</b> the hazardous area

### Accessories and spare parts

Description	Order No.
<b>Coding comb with 12 sets of codes</b> (for coding the backplane BP 902)	107 971
<b>Power supply fuse 1.6 A slow</b> (short-circuit protection for backplane, 8 channel)	541 070

## Project

### Overview of the SIRAX plug-in modules

Types	Function	Non-Ex	Version Ex
V 644 - 6	Programmable universal transmitter for DC current or voltages, temperature sensors, remote sensors or potentiometers	●	PTB 97 ATEX 2074 X
PRKAB 600	Programming cable for SIRAX V 644 - 6	●	PTB 97 ATEX 2082 U
PT 602 - 6	Transmitter for resistance thermometer Pt 100, 1 or 2 channels	●	—
SV 814 - 6	Isolating switch amplifier, relay or transistor output	—	PTB 97 ATEX 2094
SV 824 - 6	Isolating switch amplifier, relay output	—	PTB 97 ATEX 2272
SD 810 - 6	Solenoid driver	—	PTB 97 ATEX 2093
TV 808 - 61	Isolating amplifier, <b>1</b> channel, <b>input Ex</b> or Non-Ex input and/or output ranges selected by <b>plug-in jumpers</b>	●	PTB 97 ATEX 2191
TV 808 - 615/6/7/8	Isolating amplifier, <b>1</b> channel, <b>output Ex</b> or Non-Ex also available for FSK <sup>1</sup> input and output not selectable	●	PTB 98 ATEX 2060
TV 808 - 62	Isolating amplifier, <b>2</b> channels input and/or output ranges selected by <b>soldered jumpers</b> and potentiometers	●	—
TI 807 - 6	Passive DC signal isolator, 2 or 3 isolation channels	●	PTB 97 ATEX 2102
SI 815 - 6	Passive DC signal isolator, 2 isolation channels with power supply transfer, versions available for FSK <sup>1</sup>	●	PTB 97 ATEX 2101
B 811 - 6	Power pack with additional functions <sup>1</sup> for intelligent and conventional 2-wire transmitters	●	PTB 97 ATEX 2083
C 402 - 6	Alarm unit for DC voltage or current input signals, with 2 output relays with one C/O contact each	●	PTB 97 ATEX 2192

<sup>1</sup> FSK = *Frequency Shift Keying*

### Dimensional drawings

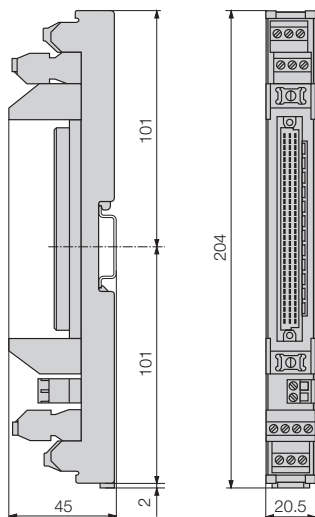


Fig. 3. Backplane BP 901-111/211 mounted on a top-hat rail (35 × 15 mm or 35 × 7.5 mm, acc. to EN 50 022).

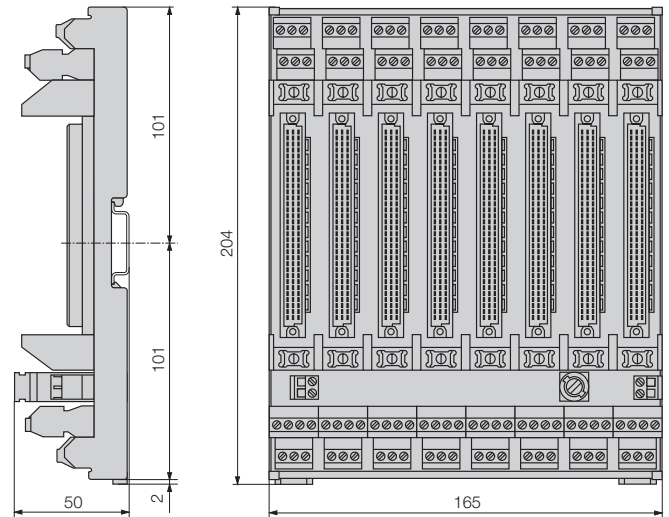


Fig. 4. Backplane BP 901-181/281 mounted on a top-hat rail (35 × 15 mm or 35 × 7.5 mm, acc. to EN 50 022).

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