

Active programming cable APKA II

Function

By the repeater integrated in the plug, the active programming cable APKA II facilitates a reactionless plugging on the PROFIBUS to program and check the logic communication quality. The 5 V supply required for repeater operation shall be made available through the pin 5 (GND) and the pin 6 (+5 V) of the contacted 9-pin sub-D socket. It can be basically assumed that all the slaves of the PROFIBUS norms support the relevant pin assignment.

Application instruction

The connector X1 with repeater function has to be plugged on the PROFIBUS and MPI interface respectively.

Important: The active programming cable cannot be used for connecting a bus user through a stub line. For this purpose the stub line ASTL is to be used.

Connection

- 9-pin sub-D plug with implemented repeater (cable outlet 35°)
- 9-pin sub-D plug (axial cable outlet)

Electrical parameters

- Baud rate: 9,6 kbps to 12 Mbps
- Supply voltage: 4,75 to 5,25 VDC has to be provided by each PROFIBUS user (Pin 5 GND, Pin 6 +5V)

Design

- Weight: approx. 230 g
- Length: 3 m

Pin assignment

Connector X1, connection measuring (repeater function)

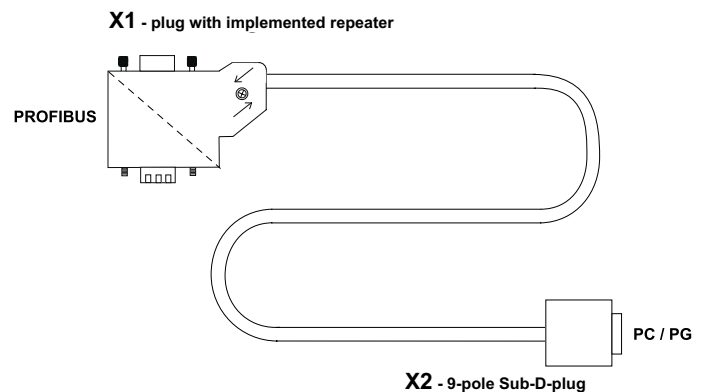
Pin	Function	Note
1	not used	
2	M24	connects to X2 Pin 2
3	B	RS 485 data
4	RTS - AS	connects to X2 Pin 4
5	GND	connects to X2 Pin 5
6	not used	
7	P24	connects to X2 Pin 7
8	A	RS 485 data reversed
9	not used	

Connector X2, connection slave

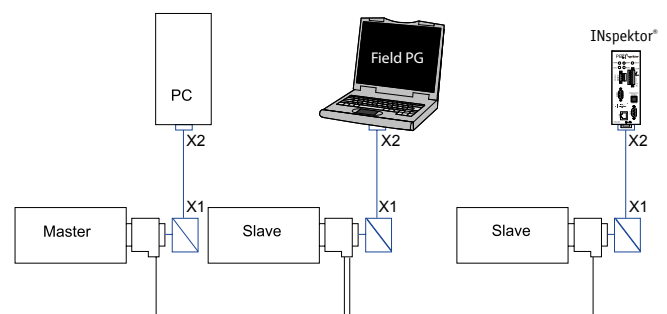
Pin	Function	Note
1	not used	
2	M24	connects to X1 Pin 2
3	B	RS 485 data
4	RTS - AS	connects to X1 Pin 4
5	GND	connects to X1 Pin 5
6	VCC	supply voltage +5 V
7	P24	connects to X1 Pin 7
8	A	RS 485 data reversed
9	RTS - RG	used for switching between send/receive



APKA II



Engineering drawing



Example of use

Ordering details

Art. No.

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