

VIPA Profibus Connector

EasyConn PB



EasyConn PB:

The bus connector EasyConn PB is used for the connection of Profibus participants to the bus line. The fully visible diagnostic LEDs facilitate the installation considerably. Users can immediately check the status of bus activity, termination resistors, power supply and bus status. The integrated controller supports transmission rates of up to 12MBit/s.

Features:

- Cable slots with transparent covers for high visibility (wiring, position of sreen and cable)
- Full metal construction for noise immunity and harsh environment
- State monitoring via integrated LEDs for bus diagnosis
- · Comfortable IDC technology for fast and reliable wire connection
- Captive singe-screw-mounting system no loose parts
- Integrated switchable termination resistor
- Integrated programming / diagnostic port
- Supporting stranded wire types: LAPP Art. No. 2170222, 2170822, 2170322
- EATT AR. NO. 2110222, 2110022, 2110022

Standard bus line for fixed and flexible wiring:

- Bus line according to DIN 19245 and EN 50170
- Two wires stranded (Red/Green)
- Sheathing PVC mixture (violet, RAL4001)
- Flame-retardant according to VDE 0472, part 804, Test procedure B (IEC 332.1)
- 972-0DP01 and 972-0DP10 also for use of stranded wire (Lapp Cable Art. No. 2170222, 2170822, 2170322)



EasyConn PB

9pole SubD pin headers

9pole SubD socket*

min. 200

8mm

4-40 UNC/0.4Nm

die-cast zinc

IP 20

DC 4.75 up to 5.25 V (Supply from the terminal max. 30mA)

> max. 30mA -20°C up to +75°C

incoming bus line outgoing bus line

IDC technology

fixed wire Type A (EN 50 170)

max. segment lengths in m

1200

1000

400

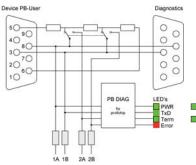
17mm

11mm

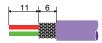
17mm

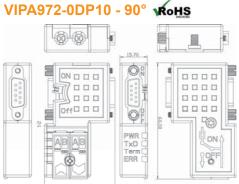
11mm

Wiring diagramm - Plug 90°

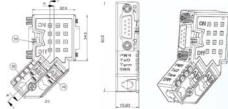


Insulation Stripping

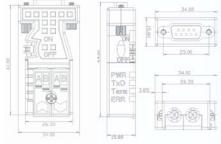




VIPA972-0DP20 - 45°



VIPA972-0DP30 - 0°



	Pair number/wire diameter	1x2x0.64mm					
e 15.00	External diameter	7.8mm					
	Copper number	26kg/km					
	Weight about.	57kg/km					
	Surge impedance	150 ±15Ω					
/IPA972-0DP30 - 0° 100HS	Op. capacitance (800 Hz)	max.30nF/km					
24.00	Operating peak voltage	250V (not for heavy current usage)					
	Test voltage core/core Ueff	1500V					
	Wire resistance (loop)	max.110Ω/km					
	Min. bend radius	75mm					
	Temperature range	-40°C up to +70°C					
TxD	Ordering information						
	EasyConn PB 90°	VIPA 972-0DP10					
		VIPA972-0DP01 (without integrated diagnosis)					
34.00	EasyConn PB 45°	VIPA 972-0DP20					
	EasyConn PB 0°	VIPA 972-0DP30					
	Bus line (25m to 1000m)	VIPA 830-0Lx00					
* at EasyConn PB 90°, 45°	EasyStrip (Stripping tool)	VIPA 905-6AA00					
VIPA GmbH Ohmstr. 4 D-91074 Herzogenaurach Ph.: +49-9132-744-0 Fax: +49-9132-744-1864 www.vipa.de www.speed7.com							
Date of issue: 11.2008 EK007206							

PU/diagnostics Insertion (withdraw.) cycle Cable diameter Fixing screws/max. tightening torque Enclosure Material Industrial protection Voltage supply Power input **Temperature range** Insulation stripping lengths Outer sheath Shield **Connection technology Bus line** 972-0DP01 / 972-0DP10 also for stranded wire (Lapp) Type A (EN 50 170) Linear expansion Transmission speed in kBit/s 9,6/19,2/45,45/93,75 187,5 500 1500

Technical Data

Connections

Profibus

1500				200		
3000/6000/12000				100		
Name	Color	LED off	LED on		LED blinking (5Hz)	
PWR	green	No Power (<4V)	Self-test finished, Power OK (45,5V)		Short-circuit of bus wire pos- sible. Blinks simultaneously with ERR LED.	
TXD	green	No bus activity	-		Data transfer active	
Term	green	No termination	Termination active		Internal terminating resistor faulty. Blinks simultaneously with ERR LED.	
ERR	red	No errors detected		al levels out of defined ran- ossibly termination failure in bus line.	Short-circuit of bus wire possible respectively internal resistor faulty.	
The LED flashes sporadically/asymmetrically: The Profibus device is near the reference level, which is defined in the Profibus con- nector. Appearing differences were compensated by the protocol.						
Standard bus line						
Flame retardant				VDE 0472, Part 804		
Test procedure				B (IEC332.1)		
Pair number/wire diameter				1x2x0.64mm		
External diameter				7.8mm		
Copper number				26kg/km		
Weight				57kg/km		
Surge impedance				150 ±15Ω		
Op. capacitance (800 Hz) Operating peak voltage				max.30nF/km		
	01	0		250V (not for heavy current usage)		
Test voltage core/core Ueff				1500V		
Wire resistance (loop) Min, bend radius		max.110Ω/km				
Temperature range			75mm			
Ordering information		-40°C up to +70°C				
	0		1	VIPA 972-0DP10		
EasyConn PB 90°		VIPA972-0DP10 VIPA972-0DP01 (without integrated diagnosis)				
EasyConn PB 45°				VIPA 972-0DP20		
			RoHS	VIPA 972-0DP 20		
Bus line (25m to 1000m)				VIPA 830-0Lx00		