

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 single-screw-mounting system no loose parts
- · Integrated switchable termination resistor
- Integrated programming / diagnostic port
- Supporting stranded wire types: LAPP Art. No. 2170222, 2170822, 2170322

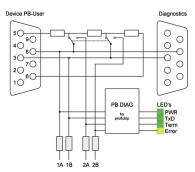
Standard bus line for fixed and flexible wiring:

- 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)

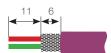
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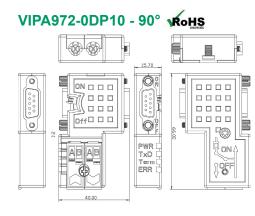
Wiring diagramm - Plug 90°



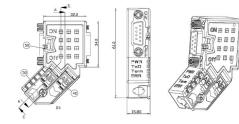
Insulation Stripping



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VIPA972-0DP20 - 45°



VIPA972-0DP30 - 0° RoHS

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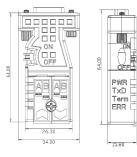
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Date of issue: 02.2013

Technical Data				EasyConn PB		
Connections						
Profibus				9pole SubD pin headers		
PU/diagnostics				9pole SubD socket*		
Insertion (withdraw.) cycle				min. 200		
Cable diameter				8mm		
Fixing screws/max. tightening torque				4-40 UNC/0.4Nm		
Enclosure						
Material				die-cast zinc		
Industrial protection				IP 20		
Voltage supply				DC 4.75 up to 5.25 V		
				(Supply from the terminal max. 30mA)		
Power input				max. 30mA		
Temperature range				-20°C up to +75°C		
Insulation stripping lengths				incoming bus line outgoing bus line		
Outer sheath				17mm 17mm		
Shield				11mm 11mm		
Connection technology				IDC technology		
Bus line				fixed wire Type A (EN 50 170)		
972-0DP01 / 972-0DP10				also for stranded wire (Lapp) Type A (EN 50 170)		
Linear expansion				may cogmont longths in m		
Transmission speed in kBit/s				max. segment lengths in m 1200		
9,6/19,2/45,45/93,75						
187,5 500				<u> </u>		
1500				200		
3000/6000/12000				100		
			LED			
PWR	green	No Power supply		test finished, Power OK	Short-circuit of bus wire pos-	
		(<4V)		(45,5V)	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	yellow	No errors detected	Signal levels out of defined ran- ge, possibly 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 about				5	57kg/km	
Surge impedance				150 ±15Ω		
Op. capacitance (800 Hz)				max.30nF/km		
Operating peak voltage				250V (not for heavy current usage)		
Test voltage core/core U _{eff}				1500V		
	sistance			max.110Ω/km		
Min. bend radius Temperature range				75mm		
Temper	rature ra	inge		-40°C up to +70°C		
Ordering information						
EasyConn PB 90°				VIPA 972-0DP10		
EasyConn PB 90°				VIPA972-0DP01		
EasyConn PB 45°				VIPA 972-0DP20		
EasyConn PB 0°				VIPA 972-0DP30		
Bus line (25m to 1000m) EasyStrip (Stripping tool)				VIPA 830-0Lx00		
EasySt	rıp (Strip	oping tool)		VIPA 905-6AA00		

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* at EasyConn PB 90°, 45°

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