

# **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

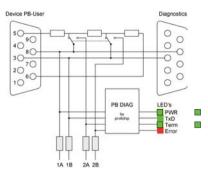
#### Standard bus line for fixed and flexible wiring:

- 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)

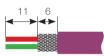


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### Wiring diagramm - Plug 90°

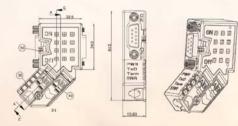


## **Insulation Stripping**

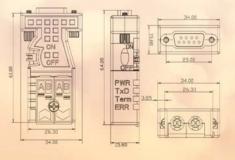


#### VIPA972-0DP10 - 90° Tons 100 1 ł, 4 15.70 **Ô**N 0 T į . Off D D D Ø B 0 h 66.0 50 LADAD PWR TxD Term ERR **₽on**A ROF 0

# VIPA972-0DP20 - 45°



# VIPA972-0DP30 - 0° RoHS



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						
Materia				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 Outer sheath				incoming bus line outgoing bus line		
	neath			17mm 17mm 11mm 11mm		
Shield Connection technology						
		chilology		IDC technology fixed wire Type A (EN 50 170)		
				also for stranded wire (Lapp) Type A (EN 50 170)		
972-0DP01 / 972-0DP10				also for stranded wire (Lapp) Type A (EN 50 170)		
Linear expansion Transmission speed in kBit/s				max. segment lengths in m		
9,6/19.2/45,45/93,75				1200		
187,5				1000		
500				400		
1500				200		
3000/6000/12000				100		
Name						
PWR	green	No Power supply (<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	gelb	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 Profibus device is	s near t	the reference level, which	ishes sporadically/asymmetrically: reference level, which is defined in the Profibus con- erences 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				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 Ueff				1500V		
Wire resistance (loop) Min. bend radius				max.110Ω/km		
	nd radiu			75mm -40°C up to +70°C		
		-		-40°C	up to +70°C	
	ng infor		RoHS	VIPA 972-0DP10		
EasyConn PB 90° Kons EasyConn PB 90° Kons				VIPA 972-0DP 10 VIPA972-0DP01		
EasyConn PB 45°				VIPA972-0DP01 VIPA 972-0DP20		
EasyConn PB 0°				VIPA 972-0DP20 VIPA 972-0DP30		
			Rous	VIPA 830-0Lx00		
Bus line (25m to 1000m) EasyStrip (Stripping tool)				VIPA 050-01200 VIPA 905-6AA00		
Lasyol				VIPA	903-0AA00	

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Date of issue: 04.2010