

Profibus Connector

Profichip



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 rate of up to 12MBit/s.

Features:

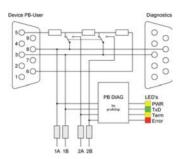
- Cable slots with transparent covers for high visibility (wiring, position of sreen and cable)
- Full metal construction for noise immunity and harsh environment
- State monitoring via integrated LEDs for bus diagnosis
- Comfortable IDC technology for fast and reliable wire connection
- Captive singe-screw-mounting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

Standard bus line for fixed and flexible wiring Features:

- 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)
- Use of stranded wire (Lapp Cable Art. No. 2170222, 2170822, 2170322)



Wiring diagramm - Connector 90°

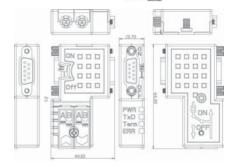


Insulation Stripping



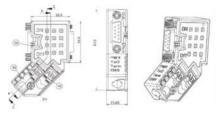
PA003135 - 90°



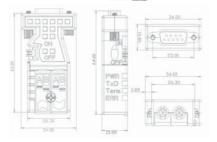


PA003121 - 45°





PA003122 - 0° RoHS



					30 G 18 F		
Technical Data					EasyConn PB		
ions							
Profibus					9pole SubD pin headers 9pole SubD socket*		
PG/diagnostics							
Insertion (withdraw.) cycle					m	nind. 200	
Cable diameter						8mm	
Fixing screws/max. tightening torque					4-40	UNC/o.4Nm	
re							
Material					die-cast zinc		
Protection					IP 20		
Voltage supply					DC 4.75 bis 5.25 V (Supply comes from the terminal max. 30mA)		
Power input					max. 30mA		
Temperature range					-20°C bis +75°C		
Insulation stripping lengths					incomming bus	line outgoing bus line	
Outer sheath					17mm	17mm	
Shield					11mm	11mm	
ion tech	nolog	gy			IDC technology		
Bus line					fixed wire Type A (EN 50 170)		
					stranded wire (f. Lapp) Type A (EN 50 170)		
xpansio	n						
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		
Color	LED	off	l	LED o	n	LED blinking (5Hz)	
green		No Power (‹4V)		Self	test finished, Power OK (45,5V)	Short-circuit of bus wire possi- ble. Blinks simultaneously with ERR LED.	
green		No bus activity			-	Data transfer active	
green		No termination			Termination active	Internal terminating resistor faulty. Blinks simultaneously with ERR LED.	
yellow No errors detected							
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Speed

The LED flashes sporadically/asymmetrically:
The Profibus device is near the reference level, which is defined in the Profibus connector. Appearing differences were compensated by the protocol.

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Standard bus line			
Flame retardant		VDE 0472, Teil 804	
Test procedure		B (IEC332.1)	
Pair number/wire diameter		1x2x0.64mm	
External diameter		7.8mm	
Copper number		26kg/km	
Weight ca.		57kg/km	
Surge impedance		150 ±15Ω	
Op. capacitance (800 Hz)		max.3onF/km	
Operating peak voltage		250V (not for heavy current usage)	
Test voltage core/core Ueff		1500V	
Wire resistance (loop)		max.110Ω/km	
Mind. bend radius		75mm	
Temperature range		-40°C bis +70°C	
Ordering information			
EasyConn PB 90°	√RoHS	PA003135	
		PA003125 (without integrated diagnosis)	
asyConn PB 45°		PA003121	
EasyConn PB o°		PA003122	
Bus line (25m to 1000m)		PA00315X	
EasyStrip (Stripping tool)		PA003160	