

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:

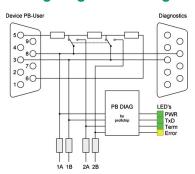
- Bus line according to DIN 19245 and EN 50170
- Two wires stranded (red/green)
- Sheathing PVC mixture (violet, RAL4001)
- Flame-retardant according to VDE 0472, part 804, Test procedure B (IEC 332.1)
- 972-0DP01 and 972-0DP10 are also for use of stranded wire (Lapp Cable Art. No. 2170222, 2170822,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



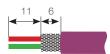
VIPA ControlsAmerica Phone: +1 (855) one-VIPA info@vipausa.com www.vipausa.com

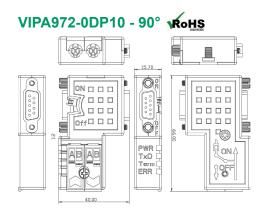
VIPA CONTROLS

Wiring diagramm - Plug 90°

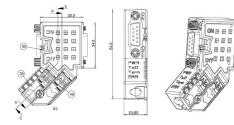


Insulation Stripping

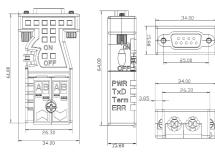




VIPA972-0DP20 - 45°



VIPA972-0DP30 - 0° 100HS



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VIPA ControlsAmerica Phone: +1 (855) one-VIPA info@vipausa.com www.vipausa.com

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Technical Data				EasyConn PB		
Conne	ections					
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 s	sheath			17mm 17mm		
Shield				11mm 11mm		
		chnology		IDC technology		
Bus line				fixed wire Type A (EN 50 170)		
		72-0DP10		also for stranded wire	e (Lapp) Typ	be A (EN 50 170)
	expans					· · · · · ·
		peed in kBit/s		max. segment lengths in m		
	,2/45,45/	93,75		1200		
187,5				1000		
500				400		
1500	000/400	00		200		
3000/6000/12000				100 DN LED blinking (5Hz)		
Name PWR		LED off No Power supply	LED o	test finished. Power OK		uit of bus wire pos-
FVK	green	(<4V)	Sell-	(45,5V)	sible. Blir	h ERR LED.
TXD	green	No bus activity		- Data transfer act		transfer active
Term	green	No termination		Termination active Internal terminating resistor faulty. Blinks simultaneously with ERR LED.		
ERR	yellow	No errors detected		I levels out of defined ran- ossibly termination failure in bus line.	possible r	circuit of bus wire espectively internal sistor faulty.
			e LED	lashes sporadically/asymmetrically: e reference level, which is defined in the Profibus con- fferences were compensated by the protocol.		
			s near t	the reference level, which		
Standa	ard bus	nector. Appe	s near t	the reference level, which		
	ard bus retardan	nector. Appe line	s near t	the reference level, which differences were compens		protocol.
Flame		nector. Appe line	s near t	the reference level, which differences were compens VDE 0-	ated by the	protocol.
Flame Test pr	retardan ocedure	nector. Appe line	s near t	the reference level, which differences were compens VDE 0- B (I	ated by the 472, Part 80	protocol.
Flame Test pr Pair nu	retardan ocedure	nector. Appe line t re diameter	s near t	the reference level, which differences were compens VDE 0- B (I 1x2	ated by the 472, Part 8(EC332.1)	protocol.
Flame Test pr Pair nu Extern	retardan ocedure umber/wi	nector. Appe line t re diameter ter	s near t	the reference level, which differences were compens VDE 0- B (I 1x2	ated by the 472, Part 80 EC332.1) 2x0.64mm	protocol.
Flame Test pr Pair nu Extern Coppe	retardan ocedure ımber/wi al diame	nector. Appe line t re diameter ter	s near t	the reference level, which differences were compens VDE 0- B (I 1x2	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm	protocol.
Flame Test pr Pair nu Extern Coppe Weight	retardan ocedure umber/wi al diame r numbe	nector. Appe line t t re diameter ter r	s near t	the reference level, which lifferences were compens VDE 0- B (I 1x2 2 5	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km	protocol.
Flame Test pr Pair nu Extern Coppe Weight Surge	retardan rocedure umber/wi al diame r numbe t about impedan	nector. Appe line t t re diameter ter r	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km	protocol.
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca	retardan rocedure umber/wi al diame r numbe t about impedan	nector. Appe line t re diameter ter r ce e (800 Hz)	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω κ.30nF/km	protocol. D4
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat	retardan ocedure imber/wi al diame r number t about impedan pacitanc ting peak	nector. Appe line t re diameter ter r ce e (800 Hz)	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1 1 max 250V (not for h	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω κ.30nF/km	protocol. D4
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vo	retardan ocedure imber/wi al diame r number t about impedan pacitanc ting peak	nector. Appe line t t re diameter ter r ce e (800 Hz) : voltage re/core Ueff	s near t	the reference level, which differences were compens VDE 0- B (l 1x2 5 1! max 250V (not for h	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω k.30nF/km neavy curre	protocol. D4
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vo Wire re	retardan ocedure imber/wi al diame r number t about impedan pacitanc ting peak oltage co	nector. Appe line t t re diameter ter r ce e (800 Hz) : voltage re/core Ueff e (loop)	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1 1 2 250V (not for h max	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω k.30nF/km neavy curre 1500V	protocol. D4
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vo Wire re	retardan rocedure umber/wi al diame r number t about impedan pacitanc ting peak oltage co esistance	nector. Appe line t t re diameter ter r ce e (800 Hz) : voltage re/core U _{eff} e (loop) is	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1t max 250V (not for t max	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km .7kg/km 50 ±15Ω k.30nF/km neavy curre 1500V k.110Ω/km	protocol. 04 nt usage)
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vc Wire re Min. be Tempe	retardan ocedure imber/wi al diame r number t about impedan pacitanc ting peak oltage co esistance end radiu	nector. Appe line t re diameter ter r ce e (800 Hz) : voltage re/core U _{eff} e (loop) is nge	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1t max 250V (not for t max	ated by the EC332.1) 2x0.64mm 7.8mm 6kg/km 6kg/km 50 ±15Ω c.30nF/km heavy curre 1500V c.110Ω/km 75mm	protocol. 04 nt usage)
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vo Wire re Min. be Tempe Orderi	retardan occedure umber/wi al diame r numbei t about impedan pacitanc ting peak oltage co esistance end radiu rature ra ng infor	nector. Appe line t re diameter ter r ce e (800 Hz) : voltage re/core U _{eff} e (loop) is nge	s near t	the reference level, which differences were compens VDE 0- B (I 1x2 5 1t max 250V (not for t max -40°C	ated by the EC332.1) 2x0.64mm 7.8mm 6kg/km 6kg/km 50 ±15Ω c.30nF/km heavy curre 1500V c.110Ω/km 75mm	protocol. D4 nt usage) C
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vo Wire re Min. be Tempe Orderi EasyC	retardan occedure umber/wi al diame r numbei t about impedan pacitanc ting peak oltage co esistance end radiu rature ra ng infor	nector. Appe	s near t aring c	the reference level, which differences were compens VDE 0- B (I 1x2 5 1 2 5 1 2 5 1 8 max 250V (not for H max 250V (not for H max 250V (not for H max 250V (not for H	ated by the EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω c.30nF/km neavy curre 1500V c.110Ω/km 75mm up to +70°0	protocol. D4 nt usage) C
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vo Wire re Min. be Tempe Orderi EasyC EasyC	retardan rocedure umber/wi al diame r numbei t about impedan pacitanc ting peak oltage co esistance end radiu rature ra ing infor	nector. Appe line t re diameter ter r ce e (800 Hz) x voltage re/core Ueff e (loop) is nge mation 20° (w/o LEDs)	s near t aring c	the reference level, which differences were compens VDE 0- B (I 1x2 5 1! max 250V (not for H max 250V (not for H max -40°C VIPA VIPA	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω c.30nF/km 750V c.110Ω/km 75mm up to +70°0 972-0DP01	protocol. 04 nt usage) C
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vc Wire re Min. be Tempe Orderi EasyC EasyC	retardan rocedure umber/wi al diame r number t about impedan pacitanc ting peak oltage co esistance end radiu rature ra ng infor onn PB §	nector. Appe	s near t aring c	the reference level, which differences were compens VDE 0- B (I 1x2 5 1t max 250V (not for t max 250V (not for t max -40°C VIPA VIPA VIPA	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω 4.30nF/km 1500V 4.110Ω/km 75mm up to +70° 972-0DP01 972-0DP11	protocol. 04 nt usage) C C
Flame Test pr Pair nu Extern Coppe Weight Surge Op. ca Operat Test vc Wire re Min. be Tempe Orderi EasyC EasyC EasyC	retardan rocedure umber/wi al diame r number t about impedan pacitanc ting peak oltage co esistance end radiu rature ra ng infor onn PB s onn PB s	nector. Appe	s near t aring c 	the reference level, which differences were compens VDE 0- B (I 1x2 5 1t 250V (not for t max 250V (not for t max 250V (not for t VIPA VIPA VIPA	ated by the 472, Part 80 EC332.1) 2x0.64mm 7.8mm 6kg/km 7kg/km 50 ±15Ω c.30nF/km neavy curre 1500V c.110Ω/km 75mm up to +70°0 972-0DP01 972-0DP01 972-0DP10	protocol. 04 nt usage) C 0 0 0



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