

Technical Information PVE, Series 4 for PVG 32/100/120 and PVHC

Technical Data

PVHC reaction time (continued)

From max. spool travel to neutral position at power off	max.	0.175s
	rated	0.090s
	min.	0.065s

PVEO and PVEM control specification

PVEO and PVEM control specification

Supply voltage U_{DC}	rated	12 V _{DC}	24 V _{DC}
	range	11 → 15 V	22 → 30 V
	max. ripple	5%	
Current consumption	typical	740 mA	365 mA
	minimum	550 mA	290 mA
	maximum	820 mA	420 mA
Current via DI	maximum	100 mA	

PVEO and PVEM reaction time

Reaction time in seconds		PVEO	PVEO-R	PVEM
From neutral position to max. spool travel at power on	max.	0.235s	0.410s	0.700s
	rated	0.180s	0.350s	0.450s
	min.	0.120s	0.250s	0.230s
From max. spool travel to neutral position at power off	max.	0.175s	0.330s	0.175s
	rated	0.090s	0.270s	0.090s
	min.	0.065s	0.250s	0.065s
From neutral position to max. spool travel by constant power	max.	–		0.550s
	min.			0.210s
From max. spool travel to neutral position by constant power	max.			0.150s
	min.			0.040s

PVEA, PVEH, PVES and PVEU control specification

PVEA, PVEH, PVES and PVEU control specification

Supply voltage U_{DC}	rated	11 → 32 V
	max. ripple	5 %
Current consumption at rated voltage		0.57 (33) A @ 12 V 0.3 (17) A @ 24 V
Signal voltage	neutral	0.5 × U_{DC} (PVEU 5V)
	A-port ↔ B-port	0.25 → 75 • U_{DC}
Signal current at rated voltage		0.25 → 70 mA
Input impedance in relation to 0.5 • U_{DC}		12 kΩ
Power consumption		7 (3.5) W
Error pin max current		100 mA

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PVEO pinout

PVEO with direction indication (DI) connection

Connector 1	A U_{DC}	B U_{DC}	Gnd	Gnd
AMP (gray)	p 1	p 2	p 3	p 4

Connector 2	DI-B	DI-A	Gnd	U_{DC2}
AMP (black)	p 1	p 2	p 3	p 4

PVEO standard connection

Connector	A	B
AMP/Hirschmann/DIN	pin 1	pin 2
Deutsch®	pin 1	pin 4

Function	A (pin 1)	B (pin 2)
Neutral	0	0
Q: P → A	U_{DC}	0
Q: P → B	0	U_{DC}

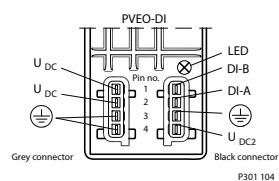
All PVEO Connections

Connector	A	B
AMP/Hirschmann/DIN	pin 1	pin 2
Deutsch®	pin 1	pin 4

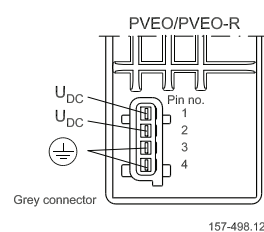
- Ground pins are internally connected.
- Pin 3 is not connected on Hirschmann/DIN version of PVEO.
- U_{DC2} supplies electronics for feedback signal on PVEO-DI.

PVEO connection

AMP version of PVEO-DI



AMP version of PVEO/PVEO-R



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PVE code numbers

PVE code numbers for PVG 32 and PVG 100 use

Deutsch® connector code numbers

Feature	S	std.	float A	float B	DI	NP	SP	Fast-no memory	ramp
Connector		1x4	1x6	1x4	2x4	1x6	1x6	1x4	
PVEA*	active	–	157B4792			157B4796	11105542		
	passive		11107365						
PVEH	active		157B4092	157B4398		157B4096	11105543		
	passive		157B4093		157B4392				
PVES	active	S	157B4892					157B4894	
	passive	S	11089276				11108994		
PVEP	active	S	11034832*						
PVEU	passive	S	11089090						
PVEO	12V	–	157B4291						11109080
	24V		157B4292						11109092

* 1x6 = one plug six pins

S = super fine hysteresis, 1x4 = one plug four pins

AMP connector code numbers

Feature	S	std.	float A	DI	anodized	ramp-ano	ramp
Connector		1x4	1x6	2x4	1x4	1x4	1x4
PVEA*	active	–	157B4734		157B4736		
	passive		157B4735		157B4737	157B4775	
PVEH	active		157B4034	157B4338	157B4036	157B4074	
	passive		157B4035		157B4037	157B4075	
PVES	active	S	157B4834				
	passive	S	157B4835			157B4865	
PVEU	active	S	11089091				
	active	–	157B4044				
	passive		157B4045				
PVEO	12V		157B4901		11157283		157B4903
	24V		157B4902		11157282	157B4272	157B4904

* 1x6 = one plug six pins

S = super fine hysteresis, 1x4 = one plug four pins

Warning

PVEA is not for use on PVG 100.

Hirschmann/DIN connector code numbers

Feature	S	std.	float B	anodized	ramp
Connector		1x4	1x4	1x4	1x4
PVEH	active		157B4032	157B4332	
	passive		157B4033	157B4073	