

Revisions

Revisions

Revision Date	Page	Change	Changed By	Version
15. June 2009	All	Document generated	Kent Lorenscheit SAE-EU (Ganlose)	1
19. June 2009	6	JS-6000 CAN+ Joystick Added	Kent Lorenscheit	2
02. July 2009	5	JS100, JS200 to JS1000 Mating Connector Adaptor kit	Kent Lorenscheit	3
07. August 2009	15	Wrong Connection Diagram for PVEP	Kent Lorenscheit	4
08. September 2009	8	Inverters added	Kent Lorenscheit	5
29. September 2009	15	PVDI Connector Added	Kent Lorenscheit	6

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Introduction

This document is an attempt to collect connector information for the different Sauer-Danfoss products.

The documentation in this document is mainly collected from our Technical Documentation.

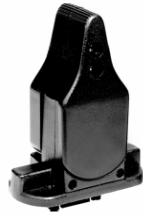
The document has NOT been reviewed, and is under construction, I will never the les release the document, sins errors when finding the right connector, anyway happens.

I will for the time being update the document, the latest revision of the document can be found here: <http://teams/controls/plus1/Documents/Forms/AllItems.aspx>

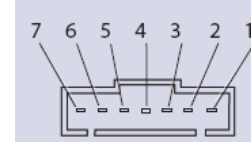
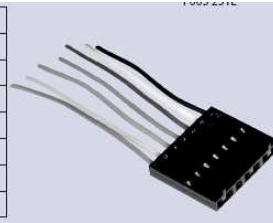
Please report errors or wishes back to me (klorenscheit@sauer-danfoss.com)

Joysticks

JS-120

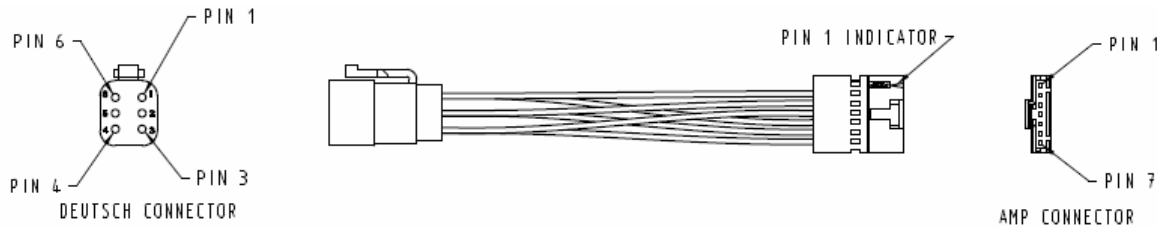


Pinout and wiring information	
Pin 1	Direction switch common
Pin 2	Direction switch +Y (N/O)
Pin 3	Direction switch -Y (N/O)
Pin 4	(-) supply (ground)
Pin 5	Output voltage
Pin 6	(+) supply (power)
Pin 7	Center tap



Description	Sauer-Danfoss SAP Part No
7 pin with 610 mm [24.02 in] leads	10101762

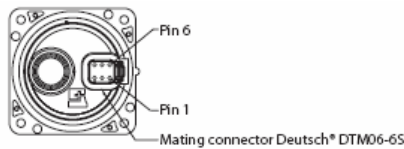
JS100, 200 to JS1000 Electrical Connector Adaptor cable



Description	Sauer-Danfoss SAP Part No
JS100, 200 to JS1000 Electrical Connector Adaptor Cable 12.7cm	11012643

Note the number in PIB JD2006-005 is Wrong

JS-1000



Pinout and Wiring Information

Pin	CAN	Analog
Pin 1	Ground	Ground
Pin 2	Power	Power
Pin 3	CAN high	X output signal
Pin 4	CAN low	Y output signal
Pin 5	CAN shield	Rocker switch
Pin 6	No connection	No connection

Connectors without cable

Description	Sauer-Danfoss SAP Part No
6 pin Deutsch® connector bag assembly	10101551

Connectors with cable

Description	Sauer-Danfoss SAP Part No
6 pin connector with 400 mm [15.75 in] leads	10101557

JS-2000



Pinout and wiring information			
Bottom View, Joystick Connector	Pin No.	XY Joystick	XYZ Joystick
		Pin 1	Supply voltage
Pin 2		Left/Right output 1	Left/Right output
Pin 3		Ground	
Pin 4		Forward/Reverse output 1	Forward/Reverse output
Pin 5		Forward/Reverse output 2	5V DC
Pin 6		Center tap	
Pin 7		Left/Right output 2	Z axis output
Pin 8		Switch output (NC if no switch)	

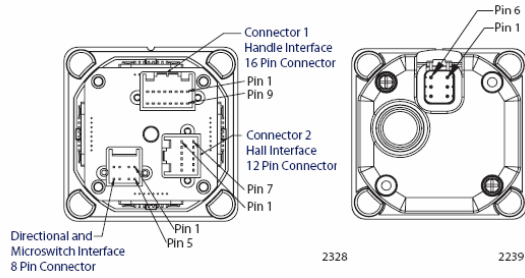
Switch is connected between pin 1 and 8.

Caution

Red lead on mating connector ribbon cable is assigned to pin 8.

Description	Sauer-Danfoss SAP Part No
Connector with 400 mm [15.75 in] ribbon cable	10102031

JS-6000



Connectors without cable

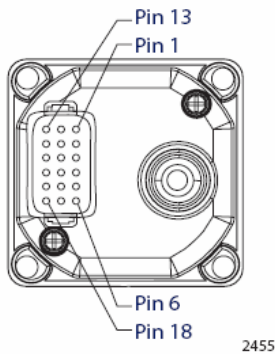
Description	Sauer-Danfoss SAP Part No
16 pin AMP® connector bag assembly	10101552
12 pin AMP® connector bag assembly	10101020
8 pin AMP® connector bag assembly	10101022
12 and 8 pin AMP® connector bag assembly	10101023
6 pin Deutsch® connector bag assembly	10101551

Connectors with cable

Description	Sauer-Danfoss SAP Part No
16 pin AMP® connector with 400 mm [15.75 in] leads	10101556
12 pin AMP® connector with 400 mm [15.75 in] leads	10101555
8 pin AMP® connector with 400 mm [15.75 in] leads	10101554
6 pin Deutsch® connector with 400 mm [15.75 in] leads	10101557

JS-6000 CAN+

Pin Location



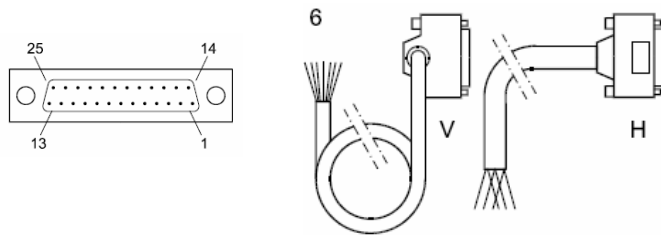
Connectors without cable

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	11012648

Connectors with cable

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector with 400 mm (15.75 in) wire harness	11012646

PROF 1, PVRE, PVRET



Description	Sauer-Danfoss SAP Part No
Cable 400mm, with Vertical SUB-D, Leads	162B6013
Cable 400mm, Horizontal Sub-D, Leads	162B6014

PVRE Change from Series 1 to Series 2 (Remember adaptor ring)

Description	Sauer-Danfoss SAP Part No
Cable 230mm, Horizontal Sub-D, Tabs	162B6017

PLUS+1 Controllers & I/O modules

12 Pin

Choose 20-24AWG (0,5-0,8mm²) or 16-20AVG (0,8-1,3mm²), you do only need one connector bag assembly pr. Controller.

Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly, (20 to 24 AWG)	10100944
Deutsch® mating connector bag assembly, (16 to 20 AWG)	10102025

24 Pin

Choose 20-24AWG (0,5-0,8mm²) or 16-20AVG (0,8-1,3mm²), you do only need one connector bag assembly pr. Controller.

Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly, (20 to 24 AWG)	10100945
Deutsch® mating connector bag assembly, (16 to 20 AWG)	10102023

38 Pin

Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly	11027919

50 Pin

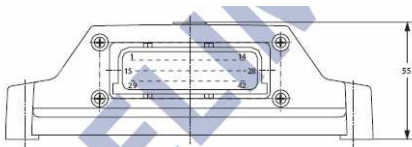
Choose 20-24AWG (0,5-0,8mm²) or 16-20AVG (0,8-1,3mm²), you do only need one connector bag assembly pr. Controller.

Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly, (20 to 24 AWG)	10100946
Deutsch® mating connector bag assembly, (16 to 20 AWG)	10102024

88 Pin

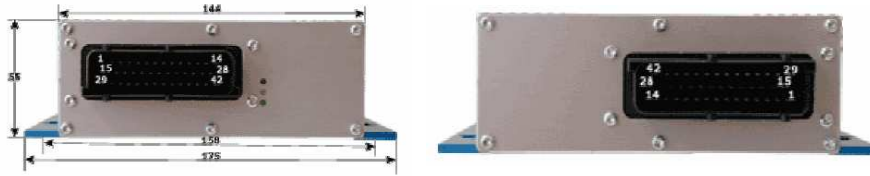
Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly	10105649

S1X-49 Controller



Description	Sauer-Danfoss SAP Part No
AMP CONNECTOR,42 POLE	512263

BlueBox ADG

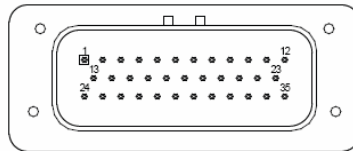


2 pcs. pr controller

Description	Sauer-Danfoss SAP Part No
AMP CONNECTOR,42 POLE	512263

Inverters

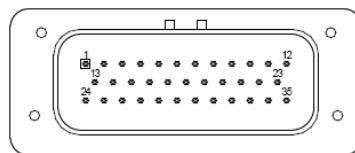
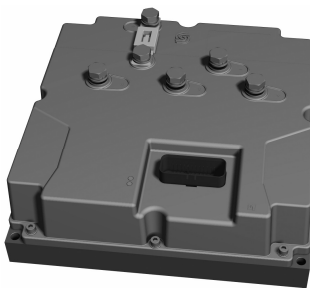
Inverter MI06-S-XX/400



1 pcs. pr controller

Description	Sauer-Danfoss SAP Part No
35 pin AMPSEAL Mating Connector Bag Assembly	10107896

Inverter MI20-S-80/650



1 pcs. pr controller

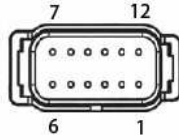
Description	Sauer-Danfoss SAP Part No
35 pin AMPSEAL Mating Connector Bag Assembly	10107896

Displays

Displays DP 200

DP200 Series pin assignments

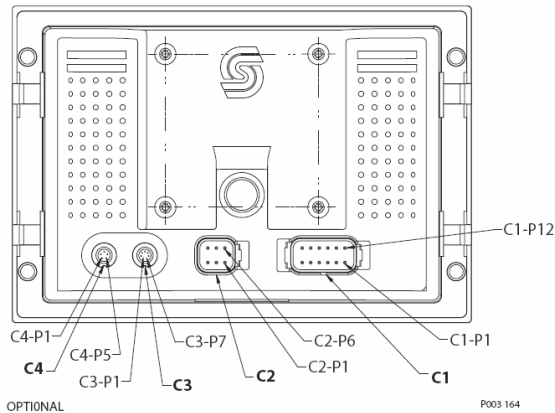
		Code B 00	Code B 01	Code B 04
1	Power ground-			
2	Power supply+			
3	CAN 0+			
4	CAN 0-			
5	AIN/ CAN Shield			
6	See Code B option	NC	DIN/AIN	NC
7	See Code B option	NC	DIN/AIN	NC
8	See Code B option	NC	DIN/AIN	CAN 1+
9	See Code B option	NC	DIN/AIN	CAN1-
10	DIN/AIN/FREQ IN/ CURRENT IN			
11	DIN/AIN/FREQ IN/ CURRENT IN			
12	DOUT (0.5A)			



Choose 20-24AWG (0,5-0,8mm²) or 16-20AVG (0,8-1,3mm²), you do only need one connector bag assembly pr. Display

Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly, (20 to 24 AWG)	10100944
Deutsch® mating connector bag assembly, (16 to 20 AWG)	10102025

DP 600, 610, 620



Connector C1

You always need Connector C1 (Power, Can)

Choose 20-24AWG (0,5-0,8mm²) or 16-20AWG (0,8-1,3mm²), you do only need one connector bag assembly pr. Display

Description	Sauer-Danfoss SAP Part No
Deutsch® mating connector bag assembly, (20 to 24 AWG)	10100944
Deutsch® mating connector bag assembly, (16 to 20 AWG)	10102025

Connector C2

Optional (RedCan, Redundant PS)

Description	Sauer-Danfoss SAP Part No
6 pin Deutsch® connector bag assembly	10103494

Connector C3 (Binder 7-pin)

Optional (USB, RS-232)

Description	Sauer-Danfoss SAP Part No
7-pin male Binder connector (includes 2 meter cable)	10100729

Connector C4 (Binder 5-pin)

Optional (Video)

Description	Sauer-Danfoss SAP Part No
5-pin male Binder connector (includes 2 meter cable)	10100728

Complete connector kit containing connectors for C1, C2, C3, C4 (the above)

Description	Sauer-Danfoss SAP Part No
DP600 Connection Kit Contents: 10100728 5-pin male Binder connector 10100729 7-pin male Binder connector 10100944 12-pin Deutsch connection kit 10103494 6-pin Deutsch connection kit	10100868

Seal Kit's

In Order to obtain IP 67 rating, unused Connectors should be plugged with the following Seal kits,

Description	Sauer-Danfoss SAP Part No
Deutsch IP67 Seal kit	10103495
Binder IP67 Seal kit (contains two plugs)	10103496

USB Cable to PC (Use the DP600 as Gateway, no CG 150 is needed)

Description	Sauer-Danfoss SAP Part No
USB cable	10103497

Sensors

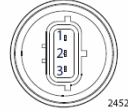
Pressure Transducers MBS2250

Pinout and Wiring Information

Pin	Function
1	+ supply
2	+ supply
3	Output

Material: Glass filled polyamid, PA 6.6

AMP® Econoseal J Series (Male)

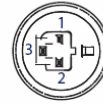


2452

Pinout and Wiring Information

Pin	Function
1	Power supply +
2	Ground
3	Signal output

3 pin Delphi® Metri-Pack™ Receptacle



2381

AMP with cable (EU Version)

Description	Sauer-Danfoss SAP Part No
CABLE TO PRESSURE TRANSMITTER (50cm)	162U9990

Metri-Pack™ (US Version)

Description	Sauer-Danfoss SAP Part No
3 pin Metri-Pack™ 150 Series Plug bag assembly	10105567

Pressure Transducers MBS1250



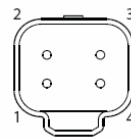
MBS1250 Heavy Duty Pressure Transmitter

Pinout and Wiring Information

Pin	Function
1	Supply -
2	Supply +
3	P. E. (not used)*
4	Output +

* Pin 3 connected to case; typically not used (P. E. = protective earth).

4 pin Deutsch® Receptacle DT-04



2398

Description	Sauer-Danfoss SAP Part No
4 pin Deutsch® Plug DT-06-45-E003 Series bag assembly	11028348

Temperature Sensor (Air & Liquid)



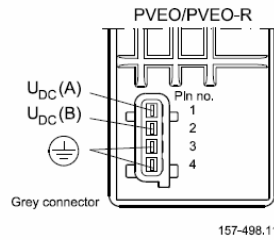
Delphi Metri-Pack 150 series

Description	Sauer-Danfoss SAP Part No
Mating Connector Bag Assembly	K23436

Valves PVG 32, PVG 100, PVG 120

AMP-Version ON/OFF

Function	Signal voltage (A or B)	
	A (pin 1)	B (pin 2)
Neutral	0	0
Q: P -> A	U_{DC}	0
Q: P -> B	0	U_{DC}

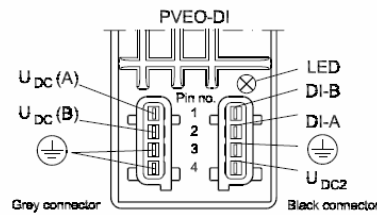


On DI versions two U_{DC} connections (U_{DC} and U_{DC2}) are necessary.

- U_{DC} will supply the electronics
- U_{DC2} will supply the solenoid valves

two ground pins (pin 3) are internally connected.

With advantages two separate power supplies can be used, see also system safety page 21.



Connectors without cable

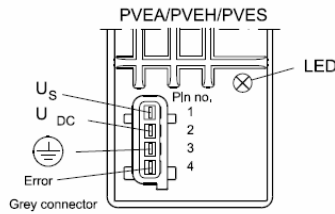
Description	Sauer-Danfoss SAP Part No
AMP CONNECTING KIT (GREY)	157B4992
AMP CONNECTING KIT (BLACK) - DI	157B4993

Connectors with cable (400mm)

Description	Sauer-Danfoss SAP Part No
Cable with connector Grey	157B4994
Cable with connector Black	157B4995

AMP-Version Proportional

Function	Signal voltage (U_s)
Neutral	$U_s(\text{pin } 1) = 0.5 \cdot U_{DC}$
Q: P -> A	$U_s(\text{pin } 1) = (0.5 \rightarrow 0.25) \cdot U_{DC}$
Q: P -> B	$U_s(\text{pin } 1) = (0.5 \rightarrow 0.75) \cdot U_{DC}$

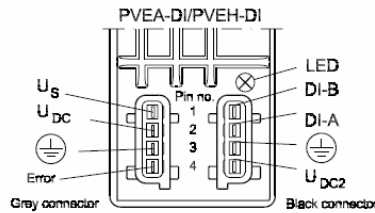


157-500.10

On DI versions two U_{DC} connections (U_{DC} and U_{DC2}) are necessary.

- U_{DC} will supply the electronics
 - U_{DC2} will supply the solenoid valves
- two ground pins (pin 3) are internally connected.

With advantages two separate power supplies can be used, see also system safety page 21.



157-499.11

Connectors without cable

Description	Sauer-Danfoss SAP Part No
AMP CONNECTING KIT (GREY)	157B4992
AMP CONNECTING KIT (BLACK) - DI	157B4993

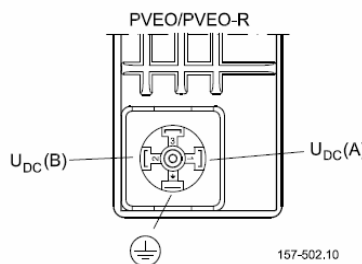
Connectors with cable (400mm)

Description	Sauer-Danfoss SAP Part No
Cable with connector Grey	157B4994
Cable with connector Black	157B4995

Hirschmann-Version ON/OFF

PVE's is delivered with the Hirschmann Connector, the numbers are therefore just for spare parts.

Function	Signal voltage (A or B)	
	A (pin 1)	B (pin 2)
Neutral	0	0
Q: P -> A	U_{DC}	0
Q: P -> B	0	U_{DC}



157-502.10

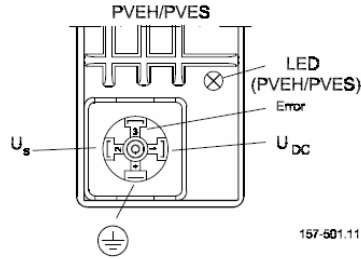
Description	Sauer-Danfoss SAP Part No
EL-PLUG, ON-OFF black, PG 9	984I3156

The grey (Prop) plug is no longer available.

Hirschmann -Version Proportional

PVE's is delivered with the Hirschmann Connector, the numbers are therefore just for spare parts.

Function	Signal voltage (U_s)
Neutral	$U_s(\text{pin 2}) = 0.5 \cdot U_{DC}$
Q: P -> A	$U_s(\text{pin 2}) = (0.5 \rightarrow 0.25) \cdot U_{DC}$
Q: P -> B	$U_s(\text{pin 2}) = (0.5 \rightarrow 0.75) \cdot U_{DC}$

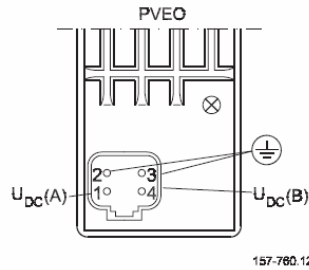


Description	Sauer-Danfoss SAP Part No
EL-PLUG, ON-OFF black, PG 9	98413156

The grey (Prop) plug is no longer available.

Deutsch-Version On/Off

Function	Signal voltage (A or B)	
	A (pin 1)	B (pin 2)
Neutral	0	0
Q: P -> A	U_{DC}	0
Q: P -> B	0	U_{DC}



Connectors without cable

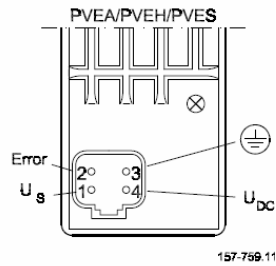
Description	Sauer-Danfoss SAP Part No
DEUTSCH, DT SERIES, CONNECTOR BAG ASSY	K23511

Connector With 4m Cable

Description	Sauer-Danfoss SAP Part No
Deutsch, 4-pole connector w. 4 m. cable	11007498

Deutsch-Version Proportional

Function	Signal voltage (U_s)
Neutral	$U_s (\text{pin 1}) = 0.5 \cdot U_{DC}$
Q: P → A	$U_s (\text{pin 1}) = (0.5 \rightarrow 0.25) \cdot U_{DC}$
Q: P → B	$U_s (\text{pin 1}) = (0.5 \rightarrow 0.75) \cdot U_{DC}$

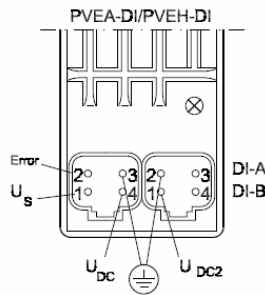


On DI versions two U_{DC} connections (U_{DC} and U_{DC2}) are necessary.

- U_{DC} will supply the electronics
- U_{DC2} will supply the solenoid valves

two ground pins (pin 3) are internally connected.

With advantages two separate power supplies can be used, see also system safety page 21.



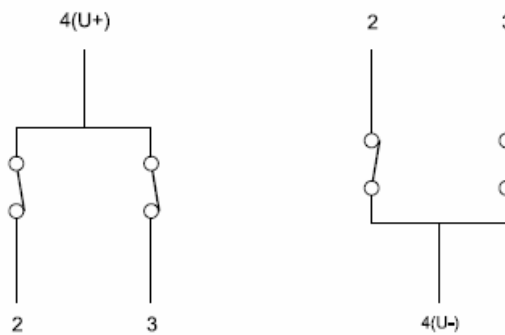
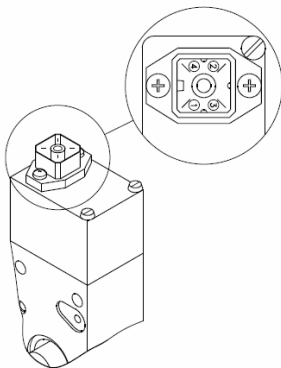
Connectors without cable

Description	Sauer-Danfoss SAP Part No
DEUTSCH, DT SERIES, CONNECTOR BAG ASSY	K23511

Connector With 4m Cable

Description	Sauer-Danfoss SAP Part No
Deutsch, 4-pole connector w. 4 m. cable	11007498

PVDI Direction Indicator

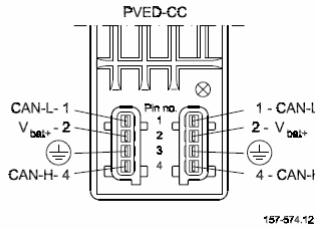


Connector

Description	Sauer-Danfoss SAP Part No
Connector Hirschmann type G4W1F (932 157-100)	157B0109

AMP-Version Canbus (PVED-CC)

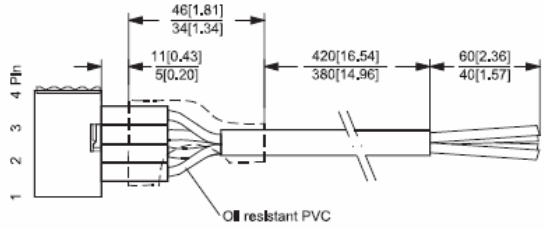
Function	CAN-message
Neutral	Port flow: 0 Valve state: 0
Q: P -> A	Port flow: 1 - 100% Valve state: 1
Q: P -> B	Port flow: 1 - 100% Valve state: 2



For further information, see 520L0665

(Gray connector)

Code number:
157B4994
(min. 50 pcs.)

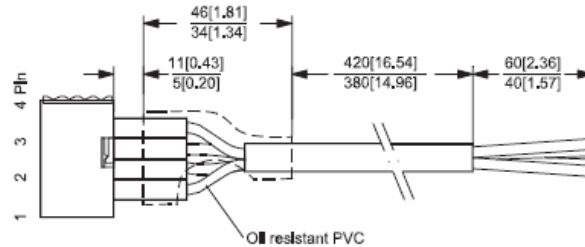


Pin 1	White
Pin 2	Blue
Pin 3	Yellow
Pin 4	Red

157-376,10

(Black connector)

Code number:
157B4995
(min. 50 pcs.)

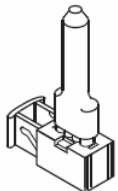


Pin 1	White
Pin 2	Blue
Pin 3	Yellow
Pin 4	Red

157-376,10

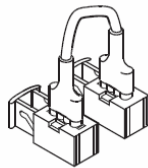
Terminator

Code number: 157B4988



Daisy chain cable

Code number:
157B4987



157-617,10

Connectors without cable

Description	Sauer-Danfoss SAP Part No
AMP CONNECTING KIT (GREY)	157B4992
AMP CONNECTING KIT (BLACK) - DI	157B4993

Connectors with cable (400mm)

Description	Sauer-Danfoss SAP Part No
Cable with connector Grey	157B4994
Cable with connector Black	157B4995

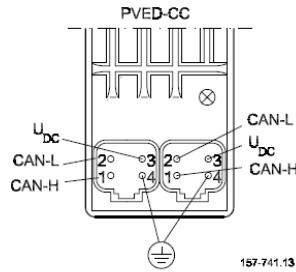
Can related components (remember one Terminator and daisy chain cables between each PVED-CC)

Description	Sauer-Danfoss SAP Part No
Terminator	157B4988
Daisy chain cable	157B4987

Deutsch-Version for Canbus (PVED-CC)

Function	CAN-message
Neutral	Port flow: 0 Valve state: 0
Q: P -> A	Port flow: 1 - 100% Valve state: 2
Q: P -> B	Port flow: 1 - 100% Valve state: 1

For further information, see 520L0665



Connector

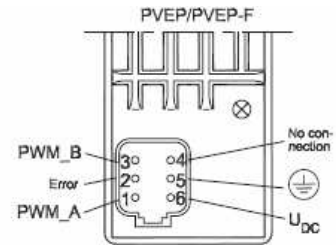
Description	Sauer-Danfoss SAP Part No
DEUTSCH, DT SERIES, CONNECTOR BAG ASSY	K23511

Connector With 4m Cable

Description	Sauer-Danfoss SAP Part No
Deutsch, 4-pole connector w. 4 m. cable	11007498

Deutsch-Version for PVEP/PVEP-F

Duty cycle A-signal (pin 1)	Duty cycle B-signal (pin 1)	Function	Error Pin output (pin 3)
0%	0%	Neutral	Low
10%	0%		
0%	10%	Fault (Error)	High
≥10%	≥10%		
0%	10 → 80%	B-port flow	Low
10 → 80%	0%	A-port flow	Low



Connector

Description	Sauer-Danfoss SAP Part No
CONNECT KIT DEUTCH 6 P	10103494

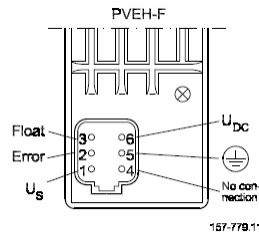
Connector with 4m cable

Description	Sauer-Danfoss SAP Part No
Deutsch, 6-pole connector w. 4 m. cable	11007513

Deutsch-Version Float option for PVBZ

Function	U _s (pin 1)	Float (pin 5)
Neutral	0.5 x U _{DC}	0
Q: P -> A	(0.5 -> 0.25) x U _{DC}	0
Q: P -> B	(0.5 -> 0.75) x U _{DC}	0
Float	None or any voltages ≤ U _{DC}	U _{DC}

For further information, see 520L0567



Connector

Description	Sauer-Danfoss SAP Part No
CONNECT KIT DEUTCH 6 P	10103494

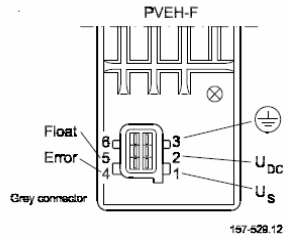
Connector with 4m cable

Description	Sauer-Danfoss SAP Part No
Deutsch, 6-pole connector w. 4 m. cable	11007513

AMP-Version Float option for PVBZ

Function	U_s (pin 1)	Float (pin 5)
Neutral	$0.5 \times U_{DC}$	0
Q: P -> A	$(0.5 \rightarrow 0.25) \times U_{DC}$	0
Q: P -> B	$(0.5 \rightarrow 0.75) \times U_{DC}$	0
Float	None or any voltages $\leq U_{DC}$	U_{DC}

For further information, see 520L0567



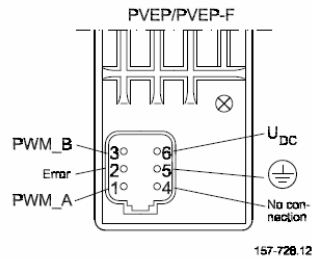
Connector with 4m cable

Description	Sauer-Danfoss SAP Part No
PVE CABLE WITH 6 POLE AMP CONN	157B4974

Float Option for PVEP-F

Duty cycle A-signal (pin 1)	Duty cycle B-signal (pin 3)	Function
0%	0%	Neutral
0 - 10%	0%	
0%	0 - 10%	
$\geq 10\%$	$\geq 10\%$	Fault (error)
0%	10 → 80%	P - B 0 → 5.5 mm
10 → 80%	0%	P - A 0 → 5.5 mm
90%	90%	Float A-port (8 mm)
$\geq 90\%$	0%	Fault (error)
0%	$\geq 90\%$	Fault (error)

For further information, see 520L0921



Connector

Description	Sauer-Danfoss SAP Part No
CONNECT KIT DEUTCH 6 P	10103494

Connector with 4m cable

Description	Sauer-Danfoss SAP Part No
Deutsch, 6-pole connector w. 4 m. cable	11007513

PVHC



Version with Deutsch Connector

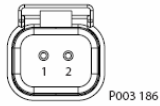
Description	Sauer-Danfoss SAP Part No
MATING CONNECTOR BAG ASSY, DEUTSCH DT-2	K29657

Motor & Pumps

H1 Axial Piston Pumps

H1 Filter bypass sensor mating connector

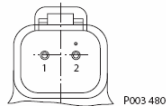
Pin location



Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	11031205

Solenoid Connector

It's the same connector for all frame sizes and regulation options



You would normally want two Deutsch connectors per pump

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K29657

Speed Sensor

Speed sensor technical data

	Min.	Nom.	Max.	Units														
Supply	4.75	5	5.25	Vdc														
Supply protection	-	-	30	Vdc														
Max. required supply current			25	mA														
Output mode	NPN & PNP																	
Connector	DEUTSCH DTM-Series 6-Pin DTM 04 – 6P																	
Connector terminals	<table border="1" style="display: inline-table; vertical-align: top;"> <thead> <tr> <th colspan="2">Sensor Pinout</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Signal 2</td> </tr> <tr> <td>2</td> <td>Direction</td> </tr> <tr> <td>3</td> <td>Signal 1</td> </tr> <tr> <td>4</td> <td>Supply</td> </tr> <tr> <td>5</td> <td>Ground</td> </tr> <tr> <td>6</td> <td>Temperature</td> </tr> </tbody> </table>				Sensor Pinout		1	Signal 2	2	Direction	3	Signal 1	4	Supply	5	Ground	6	Temperature
Sensor Pinout																		
1	Signal 2																	
2	Direction																	
3	Signal 1																	
4	Supply																	
5	Ground																	
6	Temperature																	
Protection code IP-class	IP 67 and IP 69k according to IEC 60529 & DIN 40050																	

Description	Sauer-Danfoss SAP Part No
BAG ASSY,DEUTSCH DTM06 6-SKT PLUG BLK	11033865

H1 Bent Axis Variable Motor

Solenoid Connector

It's the same connector for all frame sizes



Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K29657

Speed Sensor

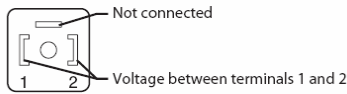
Speed sensor technical data

	Min.	Nom.	Max.	Units														
Supply	4.75	5	5.25	Vdc														
Supply protection	-	-	30	Vdc														
Max. required supply current			25	mA														
Output mode	NPN & PNP																	
Connector	DEUTSCH DTM-Series 6-Pin DTM 04 - 6P																	
Connector terminals	<table border="1" style="display: inline-table; vertical-align: top;"> <thead> <tr> <th colspan="2">Sensor Pinout</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Signal 2</td> </tr> <tr> <td>2</td> <td>Direction</td> </tr> <tr> <td>3</td> <td>Signal 1</td> </tr> <tr> <td>4</td> <td>Supply</td> </tr> <tr> <td>5</td> <td>Ground</td> </tr> <tr> <td>6</td> <td>Temperature</td> </tr> </tbody> </table>				Sensor Pinout		1	Signal 2	2	Direction	3	Signal 1	4	Supply	5	Ground	6	Temperature
Sensor Pinout																		
1	Signal 2																	
2	Direction																	
3	Signal 1																	
4	Supply																	
5	Ground																	
6	Temperature																	
Protection code IP-class	IP 67 and IP 69k according to IEC 60529 & DIN 40050																	

Description	Sauer-Danfoss SAP Part No
BAG ASSY,DEUTSCH DTM06 6-SKT PLUG BLK	11033865

Series 90 Axial Piston Pumps

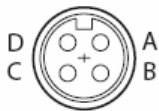
Solenoid Connector 3 -Position (FNR) Electric Control



Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K09129

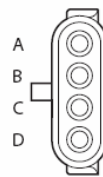
Solenoid Connector EDC (KA)

MS connector (option KA) MS 3102C-14S-2P



Sauer-Danfoss
mating parts kit
Part no. K01588
Ident No. 615062
P102 027E

Packard® Weather-Pack (option KP) 4-way shroud connector



Sauer-Danfoss
mating parts kit
Part no. K03384
(female terminals)

P102 028E

MS Connector

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K01588

Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03384

Solenoid Connector NFPE

AMP Junior Power Timer Connector

Pinout

Pin	Connector
1	PWM signal
2	Ground

Pin location



You would normally want two connectors per pump

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K19815

Series 90 Axial Piston Motors

Two-position electrohydraulic displacement control (NA, NB, NC,ND)

Option NB
12V Packard® Weather Pack
(part no. 12010973)

Option ND
24V Packard® Weather Pack
(part no. 12015792)

Option NA or NC
12 or 24V MS connector
(part no. 12015792)

Mating parts kit
Part no. K03383
Ident # 712190
(female terminals)



Mating parts kit
Part no. K03377
Ident # 629725
(male terminals)



Mating parts kit
Part no. MS3101AIOSL-4P
(female terminals)



12V Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03383

24V Packard Weather Pack

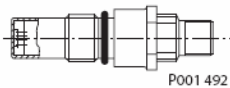
Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03377

MS Connector

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	N.A

Speed Sensor

Speed sensor with Turck® Eurofast connector



Turck Eurofast Connector 4 pin
(Supplied Connector)

Mating Connector
straight right angle
No.: K14956 No.: K14957
Id.-No.: 500724 Id.-No.: 500725

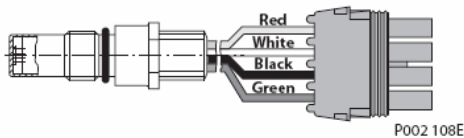
Keyway (Ref)

P001 755E

Turck Eurofast Connector

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit – Straight	K14956
Sauer-Danfoss mating connector kit – Right angle	K14957

Speed sensor with Packard® Weather-Pack connector



Packard Weather-Pack 4 pin
(Supplied Connector)

Mating Connector
No.: K03379
Id.-No.: 505341

P001 758E

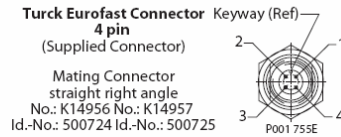
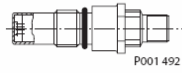
Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03379

S51 Bent Axis Variable Motor

Speed Sensor

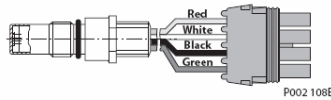
Speed sensor with Turck® Eurofast connector



Turck Eurofast Connector

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit – Straight	K14956
Sauer-Danfoss mating connector kit – Right angle	K14957

Speed sensor with Packard® Weather-Pack connector



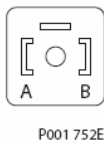
Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03379

Connector Pressure Compensated, 2-Position

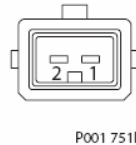
Solenoid plug face
for DIN 46350
(Supplied Connector)

Mating Connector
No.: K09129
Id.-No.: 514117



AMP Junior Timer
two pin connector
(Supplied Connector)

Mating Connector
No.: K19815
Id.-No.: 508388



DIN 46350

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K09129

AMP Junior Timer

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K19815

Connector Proportional displacement

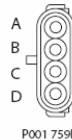
MS Connector
MS3102C-14S-2P
(Supplied Connector)

Mating Connector
No.: K08106
Id.-No.: 615062



Packard Weather-Pack
4 pin
(Supplied Connector)

Mating Connector
No.: K03384
Id.-No.: 712208



MS Connector

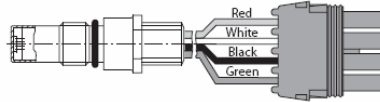
Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K08106

Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03384

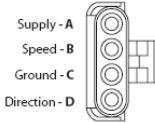
L/K Variable Motors

KPP Pulse Pick-up with Weather-Pack connector



Packard Weather-Pack
4 pin
(supplied connector)

mating connector
No.: K03379
Id.-No.: 505341



Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03379

Series 40 Pumps

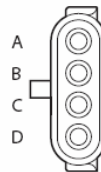
Electrical displacement control (EDC)

MS connector (option KA) MS 3102C-14S-2P



Sauer-Danfoss
mating parts kit
Part no. K01588
Ident No. 615062
P102 027E

Packard® Weather-Pack (option KP) 4-way shroud connector



Sauer-Danfoss
mating parts kit
Part no. K03384
(female terminals)

P102 028E

MS Connector

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K01588

Packard Weather Pack

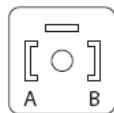
Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03384

Three-position electrical control (FNR)

Solenoid plug face for DIN 46350

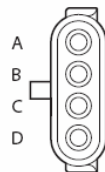
(Supplied Connector)

Mating Connector
No.: K09129
Id.-No.: 514117



P001 752E

Packard® Weather-Pack (option KP) 4-way shroud connector



Sauer-Danfoss
mating parts kit
Part no. K03384
(female terminals)

P102 028E

DIN 46350

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K09129

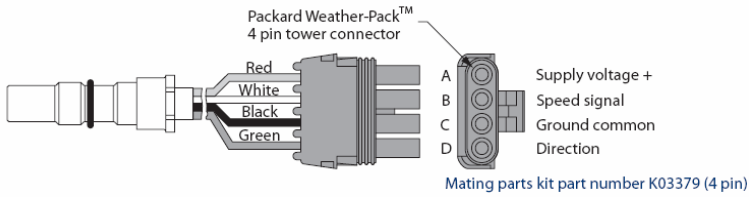
Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03384

Series 40 Variable Motor

Speed Sensor

Speed sensor with directional signal

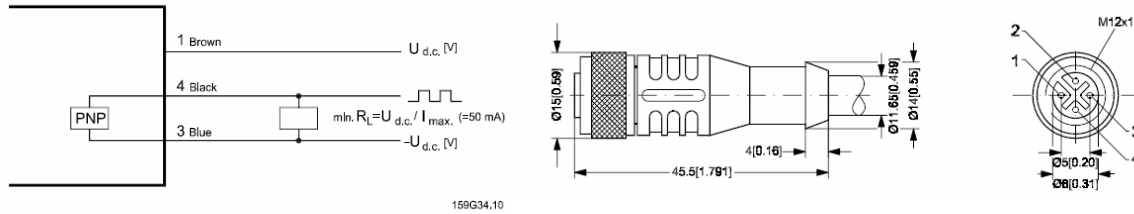


Packard Weather Pack

Description	Sauer-Danfoss SAP Part No
Sauer-Danfoss mating connector kit	K03379

Orbital Motors (EM)

OMM EM, OMP EM, OMR EM, OMS EM, OMSW EM, OMT EM, OMV EM



Cable with Binder, Series 713 Plug

Description	Sauer-Danfoss SAP Part No
Cable length 5 m [16.4 ft]	984F0101



Con

Our Products

- Hydrostatic transmissions
- Hydraulic power steering
- Electro-hydraulic power steering
- Electric power steering
- Closed and open circuit axial piston pumps and motors
- Gear pumps and motors
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- Orbital motors
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- Planetary compact gears
- Proportional valves
- Directional spool valves
- Cartridge valves
- Hydraulic integrated circuits
- Hydrostatic transaxles
- Integrated systems
- Fan drive systems
- Electrohydraulics
- Microcontrollers and software
- Electric motors and inverters
- Joystick and control handles
- Displays
- Sensors

Sauer-Danfoss Hydraulic Power Systems - Market Leaders Worldwide

Sauer-Danfoss is a comprehensive supplier providing complete systems to the global mobile market.

Sauer-Danfoss serves markets such as agriculture, construction, road building, material handling, municipal, forestry, turf care, and many others.

We offer our customers optimum solutions for their needs and develop new products and systems in close cooperation and partnership with them.

Sauer-Danfoss specializes in integrating a full range of system components to provide vehicle designers with the most advanced total system design.

Sauer-Danfoss provides comprehensive worldwide service for its products through an extensive network of Authorized Service Centers strategically located in all parts of the world.

SAE-EU

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