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PS1 Modular Interface Valve

PDE2626TCUK June 2014



ENGINEERING YOUR SUCCESS.



Important !

Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



NB !

All technical data in this catalogue is typical only.
The air quality is decisive for the valve life: see ISO 8573.



WARNING

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Modular Interface Valve - PS1

High speed poppet valve solenoid type with individual electrical connections. Light weight plastic bodies with DIN rail manifold. For cabinet installation

- Push-in connection
- High Performance 15 mm Solenoid
- Built-in terminal block
- Pneumatic output indicator
- DIN rail mounting



Technical characteristics

		3/2	4/2
Fluid :		Air or inert gas, filtered 40 µ, dry or lubricated	
Working pressure :	3/2 and 4/2 Low pressure module	1 to 8 bar	3 to 8 bar ---
Flow rate :	Nominal Qn Maximum Qmax	120 NI/min 200 NI/min	
Changeover time :	Actuation Return	10 ms 15 ms	15 ms 20 ms
Operating temperature :		- 15 °C to + 60 °C	
Storage temperature :		- 40 °C to + 70 °C	
Vibrations resistance :		2 g at 2 to 150 Hz according to IEC68-2-6	
Impact resistance :		15 g 11 ms according to IEC68-2-27	

Head and tail sets - intermediate supply modules

For 3/2 and 4/2 interface modules

	Description	Characteristics	Pneumatic connection	Weight (g)	Order code
	Set for single air supply connection	1 electrical common terminal 1 main air supply port 1 exhaust port	Push-in Ø 6 mm	100	PS1-E101
			G1/8	100	PS1-E1018
	Set for double air supply connection	1 electrical common terminal 2 main air supply ports 2 exhaust ports	Push-in Ø 6 mm	125	PS1-E102
			G1/8	125	PS1-E1028
	Intermediate air supply module	1 air supply port 1 exhaust port (see description below)	G1/8	45	PS1-E1038

Incorporating an intermediate air supply module into a group of electro-pneumatic modules gives the following options :

Air supply connection

- Additional G1/8 port to supplement the air supply to the manifold
- Blank the common air supply, enabling different pressures to be supplied to groups of modules within the manifold.

Exhaust connection

- Additional exhaust flow through the G1/8 port
- Blank the common exhaust, enabling separation of exhaust from module groups

The intermediate air supply module is supplied with 4 interchangeable connectors to enable the above supply options to be achieved.

Modular Interface Valve - PS1

Electro-pneumatic modules

Modules without solenoid valve

Visual indication of pneumatic output status : Closed = Red

Open = Yellow

Symbol function	Description	Pneumatic connection	Weight (g)	Order code
	3/2 normally closed (NC)	Push-in Ø 4 mm	52	PS1-E111
		M5	55	PS1-E115
		Push-in Ø 6 mm	55	PS1-E116
	3/2 normally open (NO)	Push-in Ø 4 mm	52	PS1-E121
		M5	55	PS1-E125
		Push-in Ø 6 mm	55	PS1-E126
	4/2 single solenoid / spring return	Push-in Ø 4 mm	120	PS1-E181
		M5	120	PS1-E185
		Push-in Ø 6 mm	125	PS1-E186
	4/2 double solenoid	Push-in Ø 4 mm	120	PS1-E191
		M5	120	PS1-E195
		Push-in Ø 6 mm	125	PS1-E196

Low pressure Electro-Pneumatic modules 3/2 (1 to 8 bar)

Modules without solenoid valve

Visual indication of pneumatic output status : Closed = Red

Open = Yellow

Symbol	Description	Pneumatic connection	Weight (g)	Order code
	3/2 normally closed (NC)	Push-in Ø 4 mm	52	PS1-E311
		M5	52	PS1-E315
		Push-in Ø 6 mm	52	PS1-E316

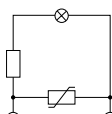
Solenoids 15 mm - 8 mm pin spacing - 1,2 W / 1,6 VA (220VAC 2,4VA)

Manual override type

	Voltage	Weight (g)	Without Order code	Non locking flush Order code	Locking flush Order code
	12 VDC	38	P2E-KS32B0	P2E-KS32B1	P2E-KS32B2
	24 VDC	38	P2E-KS32C0	P2E-KS32C1	P2E-KS32C2
	48 VDC	38	P2E-KS32D0	P2E-KS32D1	P2E-KS32D2
	24 VAC 50 Hz	38	P2E-KS31C0	P2E-KS31C1	P2E-KS31C2
	48 VAC 50/60 Hz	38	P2E-KS34D0	P2E-KS34D1	P2E-KS34D2
	115 VAC 50 Hz	38	P2E-KS31F0	P2E-KS31F1	P2E-KS31F2
	220 VAC 50 Hz	38	P2E-KS31J0	P2E-KS31J1	P2E-KS31J2

Suppressor and LED indicators

For 8 mm solenoid pin spacing - For mounting between the solenoid valve and the cable plug

Symbol	Description	Pneumatic connection	Weight (g)	Order code
	LED indicator	24 VAC/DC	3	P8V-CR26C
		115 VAC 50 Hz - 120 VAC 60 Hz	3	P8V-CR24F
		230 VAC 50 Hz - 240 VAC 60 Hz	3	P8V-CR24J

Maintenance avertissement - Solenoid pin spacing



The electro-pneumatic interface modules have been re-designed to accept both 8 mm and 9,4 mm solenoid pin spacing. If you are purchasing a solenoid or a suppressor & LED indicator for maintenance on an electro-pneumatic interface module purchased before June 2004, above solenoid P2E-KS3xxx and P8V-CRxxx (8 mm pin spacing) will not be compatible. Please, contact your Parker customer service.

Modular Interface Valve - PS1

Electro-pneumatic modules

Modules including 24 VDC solenoid valve (using P2E-KS32C1 solenoid)

Visual indication of pneumatic output status : Closed = Red Open = Yellow

	Symbol	Description	Manual override	Pneumatic connection	Weight (g)	Order code
		3/2 normally closed (NC)	Spring return	Push-in Ø 4 mm	90	PS1-E21102B
		3/2 normally open (NO)	Spring return	Push-in Ø 4 mm	90	PS1-E22102B
		4/2 single solenoid / spring return	Spring return	Push-in Ø 4 mm	160	PS1-E28102B
		4/2 double solenoid	-	Push-in Ø 4 mm	200	PS1-E29102B

Accessories : Pressure switch

With Ø4 push in connection (pneumatic input)

With electrical terminals 1,5 mm² (electric output)

Type	Symbol	Electrical characteristics	Pneumatic characteristics	Override	Weight (g)	Order code
		Pressure switch 1 CO contact 5 A/250 V	Fixed operating threshold < 1,3 bar	Manual override	50	PS1-P1081
			Adjustable operating threshold 2 to 5 bar	Manual override	50	PS1-P1091

Technical characteristics : Pressure switch

- Effective detection for preventing hazardous risks linked with equipments operating at to low pressure
- Manual override
- Easy clip on DIN rail mounting
- Fixed or adjustable threshold versions
- Recessed Electrical Terminals

Electrical durability

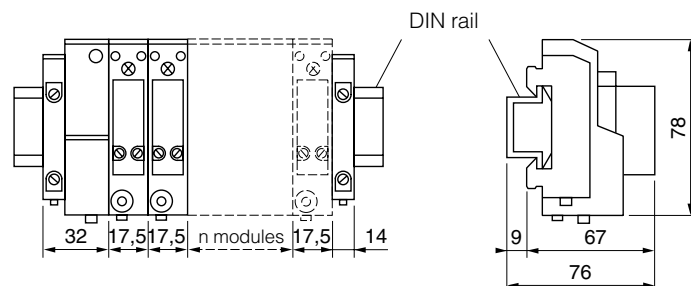
	24 VAC	48 VAC	115 VAC	24 VDC	48 VDC	115 VDC
1 million	25 VA	56 VA	115 VA	24 W	37 W	50 W
2 million	-	-	-	14 W	25 W	40 W
5 million	10 VA	14 VA	19 VA	-	-	-

Working pressure	Max 10 bar
Working temperature	-15 °C to +60 °C
Minimum actuating pressure, non adjustable	≤1,3 bar
Minimum actuating pressure, adjustable	2 to 5 bar
Operating frequency	Max 10 Hz
Nominal isolation voltage	660 V AC or DC
Nominal thermal current	10 A
Operating voltage	250 V
Pending current	5 A
Protection level	IP 40
According Power switches (inductive lead)	

Modular Interface Valve - PS1**Dimensions, PS1 valve Series****Electropneumatic interface modules 3/2 NC or NO**

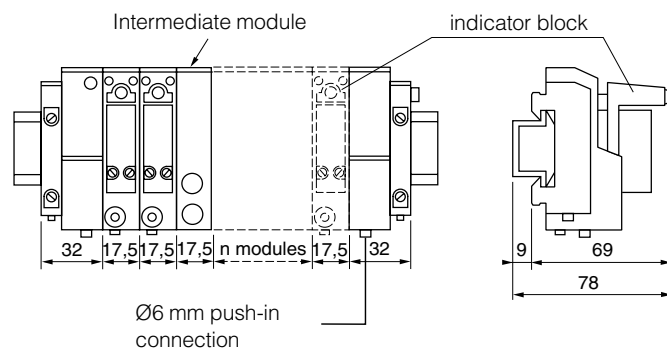
3/2 modules equipped with solenoid

Head and tail set for single air supply connection

**Total length (mm)**

$$L = 46 + (n \times 17,5)$$

n = number of modules

3/2 modules equipped with solenoid, suppressor and LED indicator
Head and tail set for double air supply connection**Total length (mm)**

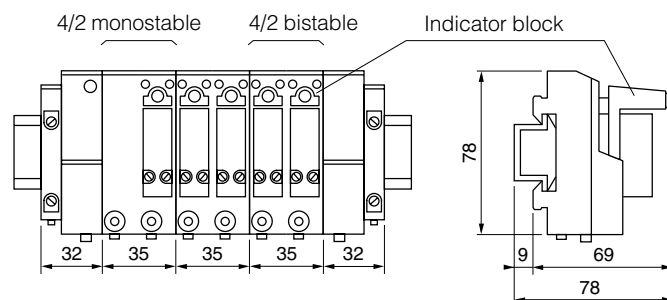
$$L = 64 + (n \times 17,5)$$

n = number of modules

Electropneumatic interface modules 4/2 single or double solenoid

4/2 modules equipped with solenoid, suppressor and LED indicator

Head and tail set for double air supply connection

**Total length (mm)**

$$L = 64 + (n \times 35)$$

n = number of modules

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