

Mechanical pressure switch Standard White Series

P4000-W Series

Wide pressure setting range covers 0.1 to 0.8 MPa.

Port size: 1/4 to 1/2

JIS symbol







Specifications

Shutoff SlowStart FImResistFR Oil-ProhR MedPresFR No Cu/ PTFE FRL Outdrs FR F.R.L (Related) CompFRL LgFRL **PrecsR** VacF/R Clean FR ElecPneuR AirBoost SpdContr Silncr CheckV/

op compared to									
Descriptions		P40	W-8-000	/	P4000)-10-W	P	4000-1	5-W
Working fluid	Compressed air								
Max. working pressure N	lPa	1.0 (≈150 psi, 10 bar)							
Proof pressure M	Pa	1.5 (≈220 psi, 15 bar)							
Pressure adjusting range M	1Pa	0.1 (≈15 psi, 1 bar) to 0.8 (≈120 psi, 8 bar)							
Ambient / fluid temperatures	°C	5 (41°F) to 60 (140°F)							
Port size	Rc		1/4		3	/8		1/2	
Micro switch	Z-15GD-B (OMRON)								
Contact array	1C								
Hysteresis M	Pa	0.1 (≈15 psi, 1 bar) to 0.49 (≈71 psi, 4.9 bar), hysteresis within 0.049 (≈7.1 psi, 0.49 bar)							
	· u	0.5 (≈73 psi, 5 bar) to 0.8 (≈120 psi, 8 bar), hysteresis within 0.078 (≈11 psi, 0.78 bar)							
Repeatability M	±0.02 (≈2.9 psi, 0.2 bar) of set pressure								
Allowable operation frequency times	20								
Insulation resistance I	/Ω	100 or more (with 500 VDC megger)							
Weight	0.5								
Mounting orientation	Install adjusting screw vertically								
Micro switch rated									
Load	Non-inductive load (A)					ductive load (A)			
Circuit		Resistance load Lamp load				nductive load Electric motor load			
Voltage		N.C	N.O	N.C	N.O	N.C	N.O	N.C	N.O
125 VAC		15	15	3.0	1.5	15	15	5.0	2.5
250 VAC		15	15	2.5	1.25	15	15	3.0	1.5
30 VDC		6.0	6.0	3.0	1.5	5.0	5.0	5.0	2.5

Option weight

other

Jnt/tube AirUnt PrecsCompn

ElecPresSw

ContactSW AirSens

PresSW Cool AirFloSens/

Contr WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg

Ending

etc

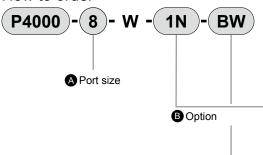
* Add to the weight of the standard accessories.

Unit: kg

Code		Bracket			
Code	A8*W	A10*W	A15*W	A20*W	BW
P4000	0.16	0.16	0.16	0.16	0.21

Attachment

How to order



Code	Content					
A Port size						
8	Rc1/4					
10	Rc3/8					
15	Rc1/2					

_	В Ор	B Option					
		Blank	Without indicator lamp				
	Light	1N	100/200 VAC with indicator lamp				
١		3N	24 VDC with indicator lamp				
	Pressure	Blank	With standard pressure gauge (G401-W)				
		Т	No pressure gauge (gauge port (Rc 1/4) is assembled sealed)				
	gauge	Pressure gauge ready (gauge port (Rc 1/4) is left open)					

Other attachments Blank Not attached A8W Rc1/4 pipe adaptor set A10W Rc3/8 pipe adaptor set A15W Rc1/2 pipe adaptor set A20W Rc3/4 pipe adaptor set BW C type bracket

A Precautions for model No. selection

- *1: C type bracket and pipe adaptor set cannot be used together.
- *2: Due to the modular design, a gasket is attached.
- *3: The joiner set is enclosed with the pipe adaptor set.

Reduction rate 0.24

(Photocopy at 141%

dimensions.)

four times to see actual

Internal structure/dimensions/safety precautions

Dimensions







F.R.L

PresSW Shutoff

SlowStart **FImResistFR**

Oil-ProhR MedPresFR

No Cu/ PTFE FRL Outdrs FR

FRI (Related)

CompFRL LgFRL

PrecsR

VacF/R Clean FR

ElecPneuR AirBoost

SpdContr

Silncr CheckV/

other Jnt/tube

AirUnt

PrecsCompn ElecPresSv

ContactSW

For DC

NC:

COM

NC

COM

For DC

Relay

(CR)

AirSens PresSW Cool

AirFloSens/ Contr

WaterRtSens TotAirSys (Total Air)

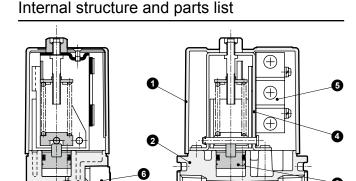
TotAirSys

RefrDry DesicDry

HiPolymDry

MainFiltr Dischra etc

Ending



No.	Part name	Material	No.
1	Cover	Resin	-
2	Body	Aluminum alloy die-casting	-
3	Piston assembly	Polyacetal resin, nitrile rubber	-
4	Frame	Steel	-
5	Micro switch	-	Z-15GD-B [OMRON]
6	Pressure gauge assembly	PBT resin, copper alloy	G401-W

- * To wire, remove cover (1), and connect directly to the micro switch (5).
- * One gasket is enclosed.

Safety precautions

■ Design/selection

A CAUTION

1 Micro switch contact specifications

Regular open circuit max. 15 A Regular closed circuit max. 30 A Starting current should be measured beforehand.

■ Mounting, installation and adjustment

A CAUTION

1 When wiring, loosen cover fastening screws, remove the cover, then wire to the micro switch inside.

2 Wiring the sensor with light

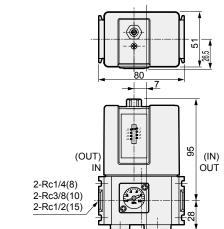
The light is connected to the micro switch's NC terminal and NO terminal. As a fine current flows even when the load (relay, etc.) is not energized, take care when selecting the load. 200 VAC 2.0 mA 24 VDC 4.5 mA 100 VAC 1.5 mA

To turn the light ON at the set pressure or more, and OFF at the set pressure or lower, wire to the micro switch COM terminal and NC terminal.

Attach | Pressure Rise → Lamp ON | plate at a visible section on the cover.

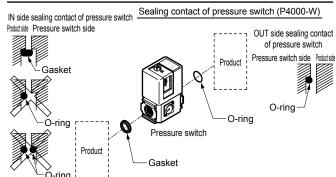
To turn the light ON at the set pressure or lower, and OFF at the set pressure and over, wire to the micro switch COM terminal and NO terminal. Attach Pressure Rise → Lamp OFF plate at a visible section on the cover.

- If there is a large amount of drainage, pipe so that the pressure adjustment screw is facing upward.
- 3 Avoid using in hot environments as the cover is made of resin.
- 4 Hold the body section when piping or installing.
- **5** Use with air that has been passed through an air filter.
- 6 Use the pressure absorbing nipple (6556) to detect sudden changes in pressure, such as when confirming air cylinder pressure.
- Loosen the nut on the top of the cover, and adjust the pressure with the adjusting screw. The set pressure rises when the nut is turned to the plus (+) side and drops when turned to the minus (-) side. (Work tools: Wrench 13 mm, flat-tip screwdriver) Fix with the nut after setting.
- The scale plate is for reference. (scale error: within ±0.05 MPa)



(Lead wire outlet)

How to assemble



For AC

For AC

COM

сом

NO C

(CR)