Air Checker: Electronic Pressure Switch

PS1000/PS1100/PS1200 Series

(For Positive Pressure)

(For Vacuum, Residual Pressure (For Vacuum)

Applicable fluid: Air, Non-corrosive gas, Non-flammable gas





ISE20

ZSE10 ISE10

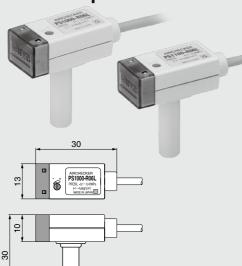
ISE70

ZSE80 ISE80 PS ISA3 ISA2 ISE35 **PSE** IS

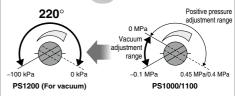
ISG

ZSM1

Compact/lightweight electronic pressure switch

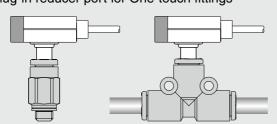


Addition of vacuum range (-100 to 0 kPa) Easy adjustment of pressure setting trimmer 220°



Easy mounting

Plug-in reducer port for One-touch fittings



High visibility

A large LED display for an easily visible switch

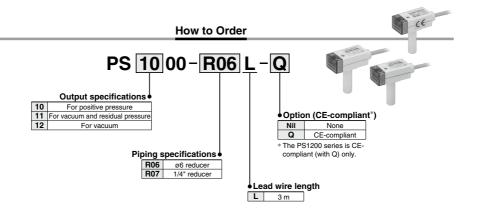
2-wire type

Applicable to either NPN or PNP output

Air Checker: Electronic Pressure Switch







Specifications

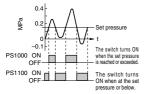
Refer to pages 11 and 12 for Pressure Switch Precautions. For details about the Specific Product Precautions, refer to the Operation Manual on the SMC website, http://www.smcworld.com

Model	PS1000	PS1100	PS1200
Switch output	Present pres. ≥ Setting pres.: ON	pres.: ON Present pres. ≤ Setting pres.: ON	
Max. operating pressure	1 MPa		500 kPa
Set pressure range	-0.1 to 0.45 MPa	-0.1 to 0.4 MPa	-100 to 0 kPa
Fluid	Air/Non-corrossive gas/Non-flammable gas		
Indicator light	ON: When red LED turns on		
Temperature characteristics	±3% F.S.		
Repeatability	±1% F.S.		
Hysteresis	4% F.S. o	r less	10% F.S. or less
Load voltage	12 to 24 VDC ±10%, Ripple (p-p) 10% or less		
Load current	5 to 40 mA		
Leakage current	1 mA or less		
Internal voltage drop	5 V or less		
Operating temperature range	0 to 60°C (No condensation)		
Insulation resistance	$2\ \text{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing		
Withstand voltage	1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing		
Weight	5 g (Excluding lead wire)		
Port size	R06: ø6 reducer, R07: 1/4" reducer		
Enclosure	IP40		
Lead wire	Grommet oilproof heavy-duty vinyl cable 2 cores, ø2.55, 3 m, Conductor area: 0.18 mm², Insulator O.D.: 0.96 mm		
Wetted parts material	Pressured sensor part: Silicon, Body part: PBT, O-ring: HNBR		
Standards	CE (Option), RoHS		

Air Checker PS1000/1100/1200 Series

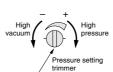
Switch Specifications

PS1000. PS1100

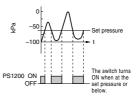


Setting of Pressure Switch

- . Use the pressure setting trimmer to set ON pressure.
- · Rotate clockwise to increase the set pressure. For setting vacuum, rotate counterclockwise.
- . To set, use a flat head screwdriver suited for the groove of the trimmer, and rotate it lightly with finger tip.



PS1200



Trimmer

Rotation angle of the trimmer is 220°.

There is a stop provided to prevent the trimmer from rotating beyond its limits. Rotation beyond the limit can damage the trimmer. Adjust the trimmer gently within the rotation angle.







Left end adjustment limit Right end adjustment limit PSE

ZSE20 ISE20

ZSE30

ISE30

ZSE40

ISE40

ZSE10 ISE10

ISE70 ZSE80

ISE80

PS

ISA3

ISA2

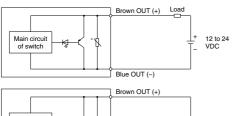
ISE35

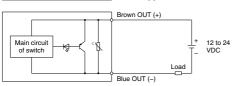
IS

ISG

ZSM1

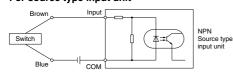
Internal Circuits and Wiring Examples



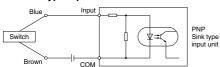


Example of connection with a PLC (Sequence controller)

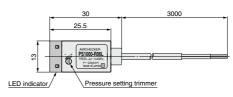
For source type input unit

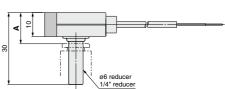


For sink type input unit



Dimensions





Dimensions

2			
Applicable One-touch fittings	Α		
KQ2H/L/T/S/Y06-M5	16		
KQ2H/L07-M5	16		
Other KQ2/KS series	13		
KJ series	16		

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