

ZSE□

IF

Mechanical Style Pressure Switch Series IS1000

Long service life: 5 million cycles



IS1000-01 IS1000-01-X202

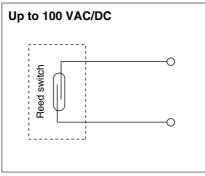
Specifications

Model	IS1000-01	PSE
Fluid	Air/Inert gas	
Proof pressure	1.0 MPa	^z SE3
Max. operating pressure	0.7 MPa	– PS
Regulating pressure range (at OFF point)	0.1 to 0.4 MPa	гJ
Hysteresis	0.08 MPa or less	
Error of scale	±0.05 MPa	
Repeatability	±0.05 MPa	ZSP
Contacts	1a	ISA2
Wiring specifications	Grommet, Lead wire length 0.5 m (Standard)	
Fluid	Air	IS□
Ambient and fluid temperature	-5 to 60°C (No freezing)	- ZSM
Port size	R 1/8	2311
Weight	74 g	PF2□
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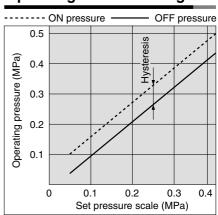
Switch Characteristics

Max. contact capacity	AC 2 VA, 2 W DC			Data
Voltage	24 VAC/DC or less	48 VAC/DC	100 VAC/DC	
Max. operating current	50 mA	40 mA	20 mA	
Impact resistance		30 G		

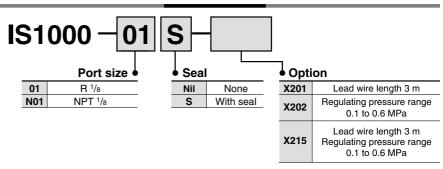
Electrical Circuit



Operating Pressure Range

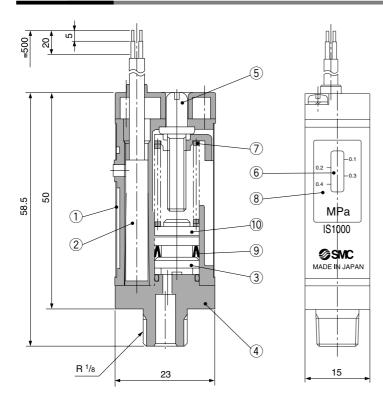


How to Order



Series IS1000

Construction



Component Parts

No.	Description	Material	
1	Shield plate	Rolled steel plate	
2	Switch assembly	—	
3	Piston	Polyacetal	
4	PT fittings	Zinc die-casted	
5	Adjusting screw	Brass	
6	Pointer	Brass	
$\overline{\mathcal{O}}$	Spring	Stainless steel 304-WPB	
8	Scale plate	Rigid vinyl chloride	
9	Miniseal Y type	NBR	
10	Magnet	Rare earth magnet	

A Precautions

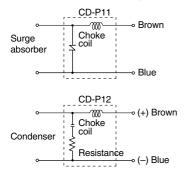
Be sure to read before handling. Refer to pages 16-14-3 and 16-14-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 16-1-11 to 16-1-13 for Precautions on Precauting on Precautions on Precautions on Precauting on Pre

Warning

- 1. Connect load before connecting with power source.
- In the case of induction load or lead wire exceeding 5 m long, the following contact protection box should be used. It may lead to damage to a switch.

Part no.	Voltage	Lead wire length	
CD-P11	100 VAC	Switch side: 0.5 m	
CD-P12	24 VDC	Load side: 0.5 m	

3. Internal circuit of contact protection box



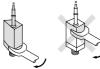
Wiring

- 4. How to connect contact protection box Connect the lead wires from the body and the contact protective box side indicated "SWITCH". Lead wire should be as short as possible, within 1 m.
- 5. Dimensions of lead wire
 - Enclosure: Ø 3.4 Insulator: Ø 1.1 Conductor: Ø 0.64

Mounting/Piping

A Warning

- 1. When changing piping by hand, hold body. Electrical wire must not be subjected to excessive force.
 - It may cause a malfunction or damage.
- 2. Do not drop nor apply excessive force. It may cause a malfunction or damage.
- 3. Tighten IS1000-01 applying the spanner on the PT fitting part.



4. Mounting direction is available in either horizontal or perpendicular.

Pressure Source

\land Warning

1. Do not use with corrosive gases or fluids.

- 2. Never use in an environment where flammable fluid or gas is used. Since this is not an explosion-proof construction, it may lead to an explosive disaster.
- Avoid use in vacuum applications. Switch may be imploded.

Pressure Setting

\land Warning

- 1. Scale of switching set display is the set value at the pressure drop.
- When detecting ON-pressure signal, note that set pressure on scale plate plus ON-OFF differential (Hysteresis) will be ON-pressure signal.
- 3. Pressure display on the scale plate is just as a reference guide. For an accurate setting, measure it by pressure gauge.

Operating Environment

- 1. Avoid using a switch in a magnetic environment. It may cause a malfunction.
- 2. Do not use in such an environment, where water or oil is splashed. Since it is the open type construction, if water or oil make an ingress into the internal parts, the electric circuit will be corroded and may result in a malfunction or damage.
- **3.** Avoid vibration. Vibration may cause malfunction or may cause setting to be incorrect.

