Pressure Switch: Reed Switch Type

Series IS1000



For details about certified products conforming to international standards, visit us at www.smcworld.com.

ZSP

PS

ISA

PSE

IS

ISG

ZSM

Specifications

Long service life: 5 million cycles

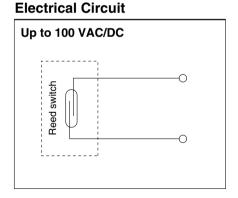


IS1000-01

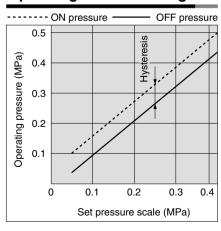
Model IS1000-01 Fluid Air/Inert gas **Proof pressure** 1.0 MPa Max. operating pressure 0.7 MPa Regulating pressure range (at OFF point) 0.1 to 0.4 MPa **Hysteresis** 0.08 MPa or less **Error of scale** ±0.05 MPa Repeatability ±0.05 MPa Contacts 1a Wiring specifications Grommet, Lead wire length 0.5 m (Standard) **Enclosure** Equivalent to IP40 Ambient and fluid temperature -5 to 60°C (No freezing) Port size R 1/8 Weight 74 g

Switch Characteristics

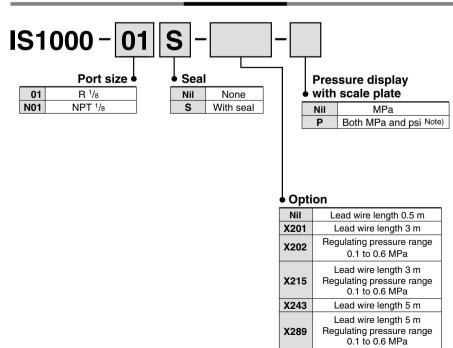
Max. contact capacity	AC 2 VA, 2 W DC		
Voltage	24 VAC/DC or less	48 VAC/DC	100 VAC/DC
Max. operating current	50 mA	40 mA	20 mA
Impact resistance	30G		



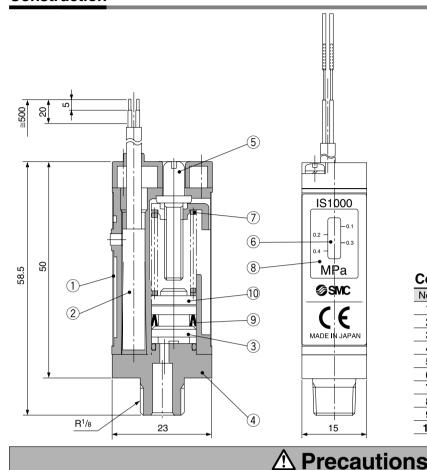
Operating Pressure Range



How to Order



Construction



Component Parts				
No.	Description	cription 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		
7	Spring	Stainless steel 304-WPB		
8	Scale plate	PC		
9	Miniseal Y type	NBR		
10	Magnet	_		

ZSE

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Wiring

△Warning

1. Connect load before connecting with power source

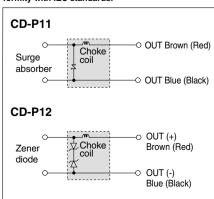
Pressure Switch Precautions.

2. 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

Lead wire colors inside () in the internal circuit of the contact protection box are those prior to conformity with IEC standards.



4. How to connect contact protection box

Be sure to read before handling. Refer to front matters 58 and 59 for Safety Instructions and pages 687 to 691 for I

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.

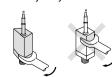
5. Dimensions of lead wire

Enclosure: ø 3.4 Insulator: ø 1.1 Conductor: ø 0.64

Mounting/Piping

△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. Turning it by applying a spanner on the main body may cause damage to the product.



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

Pressure Source

∆Warning

- 1. Operating fluids are either air or inert gas exclusively. Never use liguids.
- 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

∆Caution

- 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

∆Warning

- 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.

