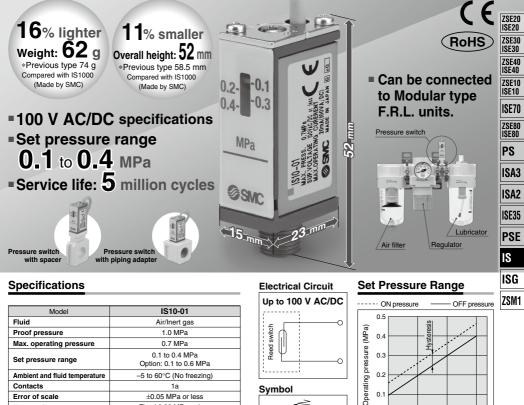
# Pressure Switch/Reed Switch Type

## IS10 Series



### Switch Characteristics

Set pressure range

Contacts

Hysteresis

Enclosure

Port size

Weight

Error of scale

Repeatability

Wiring specifications

Ambient and fluid temperature

Max. contact capacity	AC 2 VA, DC 2 W		
Voltage AC/DC	24 V or less	48 V	100 V
Max. operating current and range	50 mA	40 mA	20 mA

0.1 to 0.4 MPa

Option: 0.1 to 0.6 MPa

–5 to 60°C (No freezing)

1a

+0.05 MPa or less

Fixed 0.08 MPa or less ±0.05 MPa or less

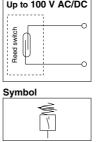
Grommet, Lead wire length: 0.5 m

Option: 3 m, 5 m

Equivalent to IP40

1/8

62 g



#### How to Order

IS10 Π 2 ેર

0.3

02

0.1

0.1

0.2

				Symbol	Description		
-				Nil	R		
U	Thread type			N	NPT		
_	+						
6	Seal		Nil	None			
4	Z Seal			S	With seal		
+							
		a	Set pressure	Nil	0.1 to 0.4 MPa		
	-	a	range	6 Note1)	0.1 to 0.6 MPa		
	E E		+				
	Semi-standard		Lead wire	Nil	0.5 m		
(3	sta B	b Lead wire	length	L	3 m		
-	1 it		lengin	Z	5 m		
	e		+				
	0	″ c	Scale plate	Nil	MPa		
		C	pressure unit		Both MPa and psi		
SOL	SOLUTION SDN BHD						

Semi-standard: Select one option each in a through c. Place them in alphanumerical order

0.3

Set pressure scale (MPa)

0.4

Example) IS10-N01-6PZ

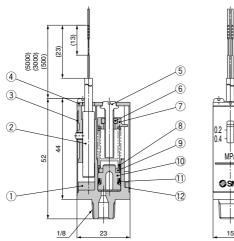
Note 1) Set pressure range of 6P(L, Z) is 0.2 to 0.6 MPa (30 to 90 psi).

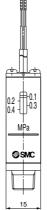
Note 2) This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

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## IS10 Series

#### **Dimensions/Construction**





#### **Component Parts**

No.	Description	Material
1	Body	ZDC
2	Switch assembly	—
3	Shield plate	Steel sheet
4	Cover	Steel sheet
5	Adjusting screw	Brass
6	Hexagon nut	Brass
7	Indicator	PBT
8	Spring	Stainless steel
9	Magnet	—
10	Piston	POM
11	Seal piston	NBR
12	Scale plate	PC

#### Wiring

#### 🗥 Warning

1. Connect load before connecting with power source

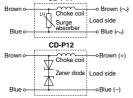
The switch will break instantly if no load is connected.

2. Make the wiring length as short as possible. When the load which is operated by the pressure switch is an inductive load, or the lead wire is 5 m or longer, use the contact protection box shown in the table below.

Otherwise, damage to the switch can result

Part no.	Voltage	Lead wire length		
CD-P11		Switch side: 0.5 m Load side: 0.5 m		
CD-P12	24 VDC			
Internal aircuit of contact protection box				

Internal circuit of contact protection box CD-P11



 How to connect contact protection box Connect the lead wires from the body and the contact protective box side indicated "SWITCH." Make the lead wire as short as possible, within 1 m.

#### 3. Dimensions of lead wire

Enclosure: ø 3.4 Insulator: ø 1.1

Conductor: ø 0.64

For details, refer to the operation manual

#### Mounting

### 🗥 Warning

- 1. When handling the product, hold the body and do not apply tensile stress to the power supply cable. Otherwise, damage may occur to the product.
- 2. Avoid repeatedly bending or stretching the lead wire. Wiring which applies repeated bending and tensile stress to the lead wire can break the circuit. If the lead wire is damaged, causing operation failure, replace the product with a new one.
- 3. Do not drop or bump the product when handling the product.
- 4. Apply a wrench to the bottom of the product when screwing

Turning it by applying a wrench on the top of the main body may cause damage to the product. Recommended tightening torque: 7 to 9 N·m



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

#### **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 a malfunction or may cause setting to be incorrect

#### Pressure Source

#### 🗥 Warning

1. Operating fluids are either air or inert gas exclusively.

Never use other fluids. 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

- 2. Not applicable to corrosive gas and liquid. Otherwise, damage to the body or liquid leakage can result.
- 3. Avoid use in vacuum applications. Switch may be imploded.
- 4. This product (IS10 series) uses a reed switch. If the chattering of the output signal is a problem, choose a solid state type pressure switch or adjust by PLC.

Pressure Setting

## \land Warning

1. Set within the display pressure range of the scale plate.

## /∆Caution

- 1. The pressure can be adjusted by rotating the adjustment screw. The red indicator goes up and down according to the adjustment. Rotate the screw clockwise for high pressure
- 2. Use a screwdriver of a size suitable for the groove of the adjustment screw.
- 3. Scale of switching set display is the set value at the pressure drop.
- 4. The ON signal is output through the pressure set on the scale plate, to which the hysteresis is added for detecting the ON-pressure signal.
- 5. The pressure displayed on the scale plate is a guideline only.

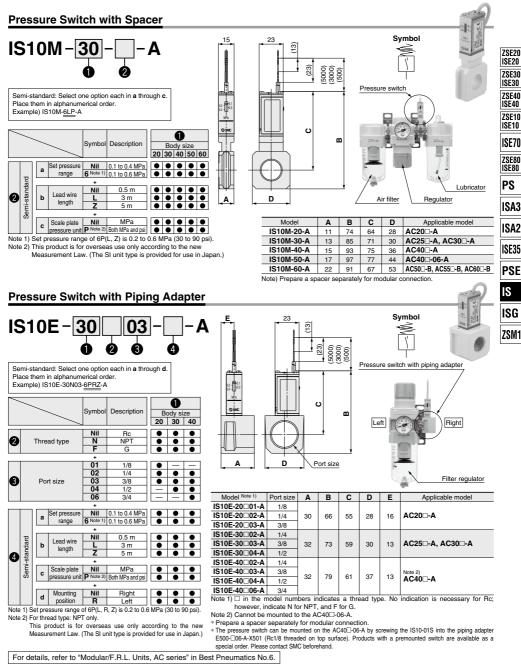
Measure the accurate pressure with the pressure gauge.

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#### Pressure Switch for Connecting to Modular/F.R.L. Units



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