

General Purpose Pressure Switch

Series ISG

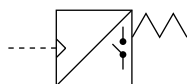
ISG General Purpose Switch is widely used in machine tools, industrial machines, compressors, chemical plants, power plants, machineries for ships, and for automatic pressure control such as hydraulic, water, liquid and atmospheric pressure.



ISG190

ISG130

JIS Symbol



Model/Specifications

Model		Operating pressure range (MPa)	Hysteresis adjusting range (MPa)	Proof pressure (MPa)	Repeatability (MPa)	Body material in contact with fluid material	Hysteresis scale plate	Electrical entry
Open type (Non-waterproof)	Dripproof							
ISG110-030	ISG210-030	0.02 to 0.3	0.01 to 0.2	1.0	±0.006	Brass, Phosphor bronze	None	(Open type) Grommet
ISG110-031	ISG210-031					Brass, Phosphor bronze	Yes	
ISG111-030	ISG211-030					Stainless steel 316	None	
ISG111-031	ISG211-031					Stainless steel 316	Yes	
ISG120-030	ISG220-030	0.05 to 0.7	0.02 to 0.35	1.5	±0.014	Brass, Phosphor bronze	None	(Dripproof) JIS F 8801 Cable gland
ISG120-031	ISG220-031		0.02 to 0.45			Brass, Phosphor bronze	Yes	
ISG121-030	ISG221-030		0.02 to 0.35			Stainless steel 316	None	
ISG121-031	ISG221-031		0.02 to 0.45			Stainless steel 316	Yes	
ISG130-030	ISG230-030	0.1 to 1.0	0.03 to 0.4	1.5	±0.02	Brass, Phosphor bronze	None	Type A 20a 20b * 20c *
ISG130-031	ISG230-031		0.03 to 0.6			Brass, Phosphor bronze	Yes	
ISG131-030	ISG231-030		0.03 to 0.4			Stainless steel 316	None	
ISG131-031	ISG231-031		0.03 to 0.6			Stainless steel 316	Yes	
ISG190-030	ISG290-030	-10 to -100 kPa	7 to 53 kPa	0.5	±2 kPa	Brass, Phosphor bronze	None	
ISG191-030	ISG291-030					Stainless steel 316	None	

Ambient and fluid temp.: 5 to 80°C (No freezing), Contacts: 1a1b, 2ab (Made to Order), Port size: R 3/8, Weight: 1.3 kg (Open type), 1.5 kg (Dripproof)

* Option

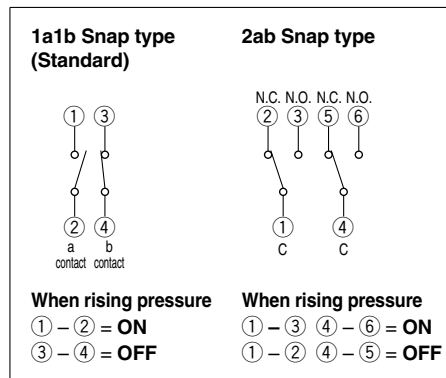
Fluid

Type of operating fluid is limited by the material of wetted parts.

Fluid	Body material in contact with fluid material	
	Bellows	Fluid entering part
Non corrosive water/Air/Liquid/Inert gas	Phosphor bronze	Brass
Fluids which do not corrode stainless steel 316 e.g. steam (150°C or less) *	Stainless steel 316	Stainless steel 316

* Ambient temperature: 80°C or less.

Contacts



Rated Voltage

Rated voltage (V)	Non inductive (A)		Inductive load (A)	
	Load resistance	Light load	Inductive load	Motor load
AC 110	12	2	12	3
220	10	1	10	1.5
440	6	1	3	1
550	5	0.8	2	0.5
DC 24	3	2.5	3	2.5
48	1.5	1.2	1.5	1.25
110	0.5	0.25	0.5	0.2
220	0.25	0.1	0.25	0.1

Insulation resistance: 100 MΩ or more at 500 VDC by megameter

Voltage resistance: 2000 VAC/1 min.