

SINGLE FUNCTION PRESSURE CONTROLS

Type SNS & HNS



GENERAL DESCRIPTION

- For use with fluorinated refrigerants as well as with air and water. (Allowable fluid temp.: -20 to 120°C)
- Type SNS for universal application.
- Type HNS for high pressure safety cut out.
- Available drip proof enclosure for marine application or explosion proof enclosure for special application.
- Mounting bracket is supplied as standard.
- With SPDT contact mechanism.
- IP44 with upper lid (option).
- Ammonia Models: Available upon request.

CE mark applicable (available upon request)

UL recognized (available upon request)



Type SNS



Type HNS

TYPE NUMBER SELECTION (SPECIFICATIONS)

Type SNS—Automatic Reset Type

Unit: MPa (kgf/cm²)

Catalog No.	Range		Differential		Factory Setting		Max. Working Pressure	Contact Function	Wt. (kg)
	Min.	Max.	Min.	Max.	Off (On)	On (Off)			
SNS-C101X	-0.06 (-50cmHg)	0.1 (1)	0.015 (0.15)	0.05 (0.5)	0.025 (0.25)	0.05 (0.5)	0.3 (3)	Diagram 1	0.33
SNS-C102X	-0.02 (-20cmHg)	0.2 (2)	0.025 (0.25)	0.15 (1.5)			0.5 (5)		
SNS-C103X	-0.06 (-50cmHg)	0.3 (3)	0.035 (0.35)	0.2 (2)	0.05 (0.5)	0.15 (1.5)	1 (10)		
SNS-C104X	-0.06 (-50cmHg)	0.4 (4)	0.04 (0.4)		0.1 (1)	0.2 (2)			
SNS-C106X	-0.06 (-50cmHg)	0.6 (6)	0.06 (0.6)	0.4 (4)	0.2 (2)	0.3 (3)	1.5 (15)		
SNS-C110X	0.1 (1)	1 (10)	0.1 (1)	0.3 (3)	0.4 (4)	0.6 (6)	3 (30)		
SNS-C120X	0.5 (5)	2 (20)	0.2 (2)	0.5 (5)	1.2 (12)	1.5 (15)			
SNS-C130X		3 (30)	0.3 (3)	1 (10)	2 (20)	2.5 (25)			
SNS-C135X	1 (10)	3.5 (35)	0.5 (5)	1.5 (15)	2.5 (25)	3 (30)	3.8 (38)		

Type SNS—Manual Reset Type

Unit: MPa (kgf/cm²)

Catalog No.	Range		Manual Reset	Factory Setting		Max. Working Pressure	Contact Function	Wt. (kg)
	Min.	Max.		Off	On			
SNS-C102XM2	-0.02 (-20cmHg)	0.2 (2)	Automatic operation on pressure decrease, and manual reset.	0.025 (0.25)	manual reset	0.5 (5)	Diagram 2	0.33
SNS-C106XM2	-0.06 (-50cmHg)	0.6 (6)		0.2 (2)		1.5 (15)		
SNS-C130XM2	0.5 (5)	3 (30)		2 (20)		3.3 (33)		

* Based on the 1-3 terminal connection.

Type HNS—Automatic Reset Type

Unit: MPa (kgf/cm²)

Catalog No.	Range		Differential	Factory Setting		Max. Working Pressure	Contact Function	Wt. (kg)
	Min.	Max.		Off	On			
HNS-C130X	0.8 (8)	3 (30)	0.3 to 0.5 fixed (3 to 5 fixed)	2 (20)	1.6 (16)	3.3 (33)	Diagram 3	0.24

* Based on the 1-3 terminal connection.

Type HNS—Manual Reset Type

Unit: MPa (kgf/cm²)

Catalog No.	Range		Manual Reset	Factory Setting		Max. Working Pressure	Contact Function	Wt. (kg)
	Min.	Max.		Off	On			
HNS-C130XM1	0.8 (8)	3 (30)	Automatic operation on pressure increase, and manual reset.	2 (20)	manual reset	3.3 (33)	Diagram 4	0.24

* Based on the 1-3 terminal connection.

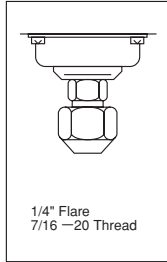
• Enclosure: IP20

• Drip Proof Models: Available upon request. (Refer to Pages 48, 49.)

ELECTRICAL RATINGS

Rated Voltage (V)		Power Factor (cos ϕ)	125/250V. AC
Rated Amps. (A)			
Non-Inductive Current		1	12
Inductive Current	Full Load	0.75	
	Locked Rotor	0.45	72

PRESSURE CONNECTIONS



Standard

Refer to Pages 45, 46

CONTACT FUNCTIONS

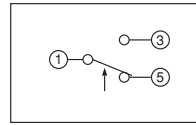


Diagram 1

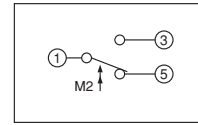


Diagram 2

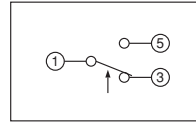


Diagram 3

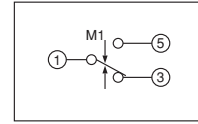


Diagram 4

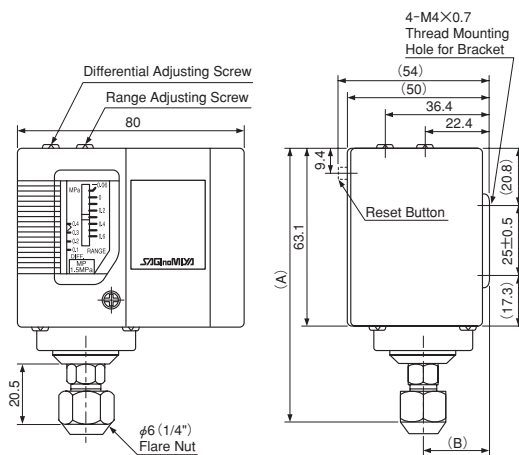
	Diagram 1 & 2	Diagram 3 & 4
1	Common Terminal	Common Terminal
3	Close on Pressure Increase	Open on Pressure Increase
5	Close on Pressure Decrease	Open on Pressure Decrease

↑: Operating direction on press. increase at High Press. Side
M1 ↓, M2 ↑: Operating direction on manual reset

DIMENSIONS

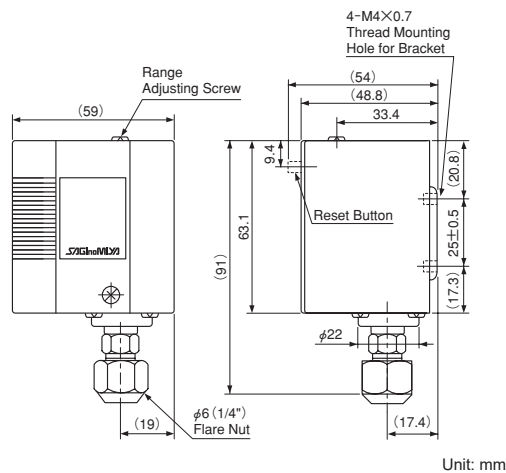
Standard Model

Type SNS



Catalog No.	Unit: mm	
	A	B
SNS-C101X	113.3	22.4
SNS-C102X	99.7	
SNS-C103X	99.7	
SNS-C104X	99.7	
SNS-C106X	96.8	
SNS-C110X	96.8	18.4
SNS-C120X	95.9	
SNS-C130X	93.5	
SNS-C135X	93.5	
SNS-C102XM2	99.7	
SNS-C106XM2	96.8	22.4
SNS-C130XM2	93.5	18.4

Type HNS



Unit: mm