



SNS Type



HNS Type

Overview

- **SNS Type:** General-purpose pressure controller with excellent performance and long service life.
- Standard protection: IP20, optional top cover IP44.
- **HNS Type:** High-pressure control pressure controller with fixed differential and manual reset function.
- Standard protection: IP20, optional top cover IP44.
- CE and UL versions available on request.
- Explosion-proof, splash-proof, and waterproof variants available on request.

General Specifications



Fluid temperature -20 to 120 °C



Ambient temperature -20 to 70 °C



Standard process connection 1/4 in flare tube,
7/16-20 thread

Electrical Ratings

Load Type	Power Factor (cosφ)	125/250 VAC
Resistive load	1.0	12 A
Inductive load, full-load current	0.75	12 A
Inductive load, surge current	—	72 A

Minimum operating current: 50 mA

Contact Forms

Fig. 1

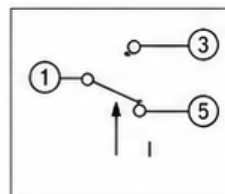


Fig. 2

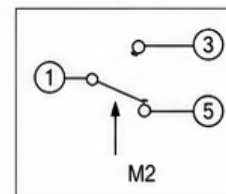


Fig. 3

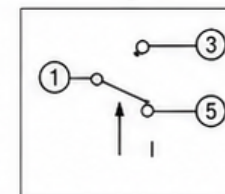


Fig. 4

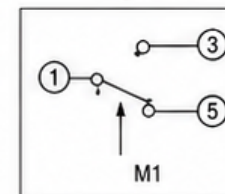


Fig. 1 and Fig. 2

Terminal 1	Common
Terminal 3	Closes on pressure rise
Terminal 5	Closes on pressure fall

Fig. 3 and Fig. 4

Terminal 1	Common
Terminal 3	Opens on pressure rise
Terminal 5	Opens on pressure fall

Arrow I indicates operating direction on pressure rise. M1 / M2 indicate manual reset direction.

Model Selection Data

SNS Type — Automatic Reset

Unit: MPa {kgf/cm²}

Model	Adjustable Range Min	Adjustable Range Max	Differential Min	Differential Max	Factory Setting Off (On)	Factory Setting On (Off)	Max. Working Pressure	Contact Form	Weight (kg)
SNS-C101X	-0.06 {-50 cmHg}	0.1 {1}	0.015 {0.15}	0.05 {0.5}	0.025 {0.25}	0.05 {0.5}	0.3 {3}	Fig. 1	0.33
SNS-C102X	-0.02 {-20 cmHg}	0.2 {2}	0.025 {0.25}	0.15 {1.5}	0.025 {0.25}	0.05 {0.5}	0.5 {5}	Fig. 1	0.33
SNS-C103X	-0.06 {-50 cmHg}	0.3 {3}	0.035 {0.35}	0.2 {2}	0.05 {0.5}	0.15 {1.5}	1 {10}	Fig. 1	0.33
SNS-C104X	-0.06 {-50 cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Fig. 1	0.33
SNS-C106X	-0.06 {-50 cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}	Fig. 1	0.33
SNS-C110X	0.1 {1}	1 {10}	0.1 {1}	0.3 {3}	0.4 {4}	0.6 {6}	1.5 {15}	Fig. 1	0.33
SNS-C120X	0.5 {5}	2 {20}	0.2 {2}	0.5 {5}	1.2 {12}	1.5 {15}	3 {30}	Fig. 1	0.33
SNS-C130X	0.5 {5}	3 {30}	0.3 {3}	1 {10}	2 {20}	2.5 {25}	3.3 {33}	Fig. 1	0.33
SNS-C135X	1 {10}	3.5 {35}	0.5 {5}	1.5 {15}	2.5 {25}	3 {30}	3.8 {38}	Fig. 1	0.33



All SNS automatic-reset models shown above use Contact Form Fig. 1.

Model Selection Data

SNS Type — Manual Reset							Unit: MPa {kgf/cm ² }	
Model	Adjustable Range Min	Adjustable Range Max	Reset Function	Factory Setting Off	Factory Setting On	Max. Working Pressure	Contact Form	Weight (kg)
SNS-C102XM2	-0.02 {-20 cmHg}	0.2 {2}	Manual reset when pressure rises; automatic operation when pressure drops	0.025 {0.25}	Manual reset	0.5 {5}	Fig. 2	0.33
SNS-C106XM2	-0.06 {-50 cmHg}	0.6 {6}	Manual reset when pressure rises; automatic operation when pressure drops	0.2 {2}	Manual reset	1.5 {15}	Fig. 2	0.33
SNS-C130XM2	0.5 {5}	3 {30}	Manual reset when pressure rises; automatic operation when pressure drops	2 {20}	Manual reset	3.3 {33}	Fig. 2	0.33

HNS Type — Automatic Reset							Unit: MPa {kgf/cm ² }	
Model	Adjustable Range Min	Adjustable Range Max	Fixed Differential	Factory Setting Off	Factory Setting On	Max. Working Pressure	Contact Form	Weight (kg)
HNS-C130X	0.8 {8}	3 {30}	0.3 to 0.5 {3 to 5}	2 {20}	1.6 {16}	3.3 {33}	Fig. 3	0.24

HNS Type — Manual Reset							Unit: MPa {kgf/cm ² }	
Model	Adjustable Range Min	Adjustable Range Max	Reset Function	Factory Setting Off	Factory Setting On	Max. Working Pressure	Contact Form	Weight (kg)
HNS-C130XM1	0.8 {8}	3 {30}	Automatic operation on pressure rise; manual reset when pressure drops	2 {20}	Manual reset	3.3 {33}	Fig. 4	0.24



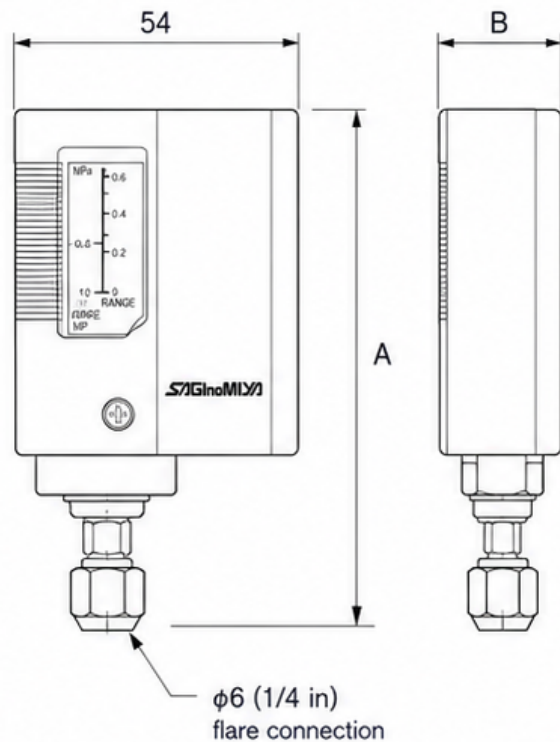
Reset Notes:

- For SNS manual-reset models, after pressure rises above the specified level, press the reset switch.
- Reset differential codes: 02 ≈ 0.04 MPa, 06 ≈ 0.10 MPa, 30 ≈ 0.50 MPa.
- For HNS-C130XM1, press the manual reset switch after pressure falls below approximately 0.7 MPa.

Dimensions

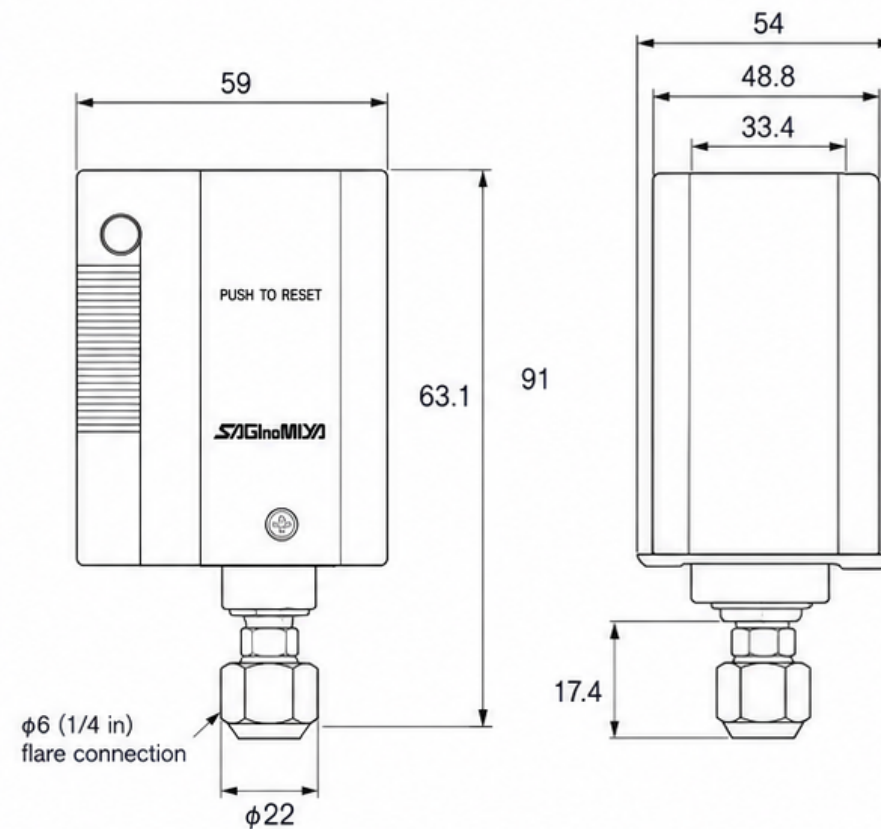
Unit: mm

1. SNS Type — Standard



Model	A	B
SNS-C101X	113.3	22.4
SNS-C102X	99.7	22.4
SNS-C103X	99.7	22.4
SNS-C104X	99.7	22.4
SNS-C106X	96.8	22.4
SNS-C110X	96.8	22.4
SNS-C120X	95.9	18.4
SNS-C130X	95.9	18.4
SNS-C135X	93.5	18.4
SNS-C102XM2	99.7	22.4
SNS-C106XM2	96.8	22.4
SNS-C130XM2	93.5	18.4

2. HNS Type — Standard



Refer to outline drawing for HNS dimensions.

Process Connection

Standard connection: 1/4 in flare tube, 7/16-20 thread.