

DRIP PROOF & WATER PROOF CONTROLS

SERIES NS-W & NS-P

SAGINOMIYA

GENERAL DESCRIPTION

- Approved by various marine standards such as Bureau Veritas, Lloyd's Register, Germanischer Lloyd, Det Norske Veritas, Nippon Kaiji Kyokai, ABS etc.
- Suitable for indoor or outdoor applications where water drips and dusts are apt to enter, such as marine refrigeration units or industrial plants.
- External wiring is made by cabtyre cable connection with cable glands.
Standard gland size: $\phi 20\text{mm}$
Semi standard gland size: $\phi 15\text{mm}$
- To order, specify catalog No. with "W" or "P".
Example: Type SNS-C106XW Drip proof model
Type SNS-C106XP Water proof model



Type SNS-P, FNS-P, ANS-P



Type SNS-W, FNS-W, ANS-W

- Type SNS-W/P — Drip proof model of single function pressure controls.

TYPE NUMBER SELECTION (SPECIFICATIONS)

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	W	−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	SNS-W Approx. 1.1 SNS-P Approx. 0.6
SNS-C102X	W, P	−0.02 {−20cmHg}	0.2 {2}	0.025 {0.25}	0.15 {1.5}			0.5 {5}		
SNS-C103X	W, P	−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	W, P	−0.06 {−50cmHg}	0.4 {4}	0.04 {0.4}		0.1 {1}	0.2 {2}	1.5 {15}		
SNS-C106X	W, P	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}			
SNS-C110X	W, P	0.1 {1}	1 {10}	0.1 {1}	0.3 {3}	0.4 {4}	0.6 {6}	3 {30}		
SNS-C120X	W	0.5 {5}	2 {20}	0.2 {2}	0.5 {5}	1.2 {12}	1.5 {15}			
SNS-C130X	W, P		3 {30}	0.3 {3}	1 {10}	2 {20}	2.5 {25}			
SNS-C135X	W, P	1 {10}	3.5 {35}	0.5 {5}	1.5 {15}	2.5 {25}	3 {30}	3.8 {38}		

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)	On (Off)			
SNS-C102XM2	W, P	-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	SNS-W: Approx. 1.1 SNS-P: Approx. 0.6
SNS-C106XM2	W, P	-0.06 {-50cmHg}	0.6 {6}		0.2 {2}		1.5 {15}		
SNS-C130XM2	W, P	0.5 {5}	3 {30}		2 {20}		3.3 {33}		

* Based on the 1-3 terminal connection.

ELECTRICAL RATINGS

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

Minimum contact capacity: 50mA

CONTACT FUNCTIONS

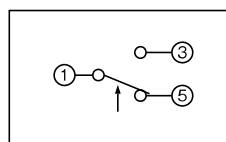


Diagram 1

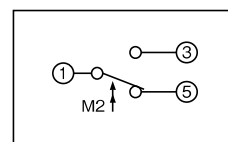


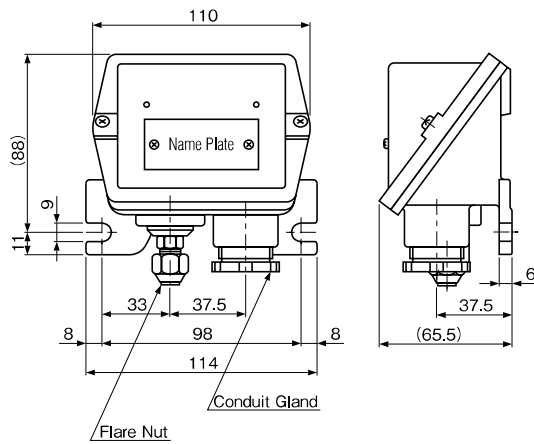
Diagram 2

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

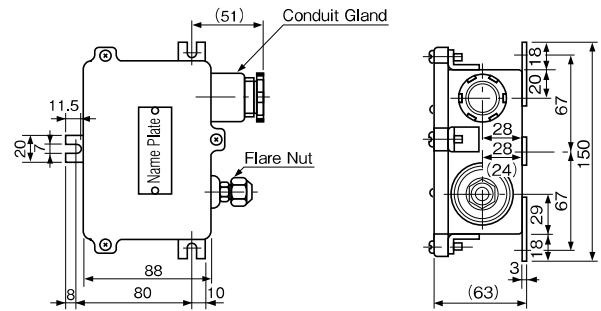
↑ : Operating direction on press. increase at High Press. Side
M2 ↑ : Operating direction on manual reset

DIMENSIONS

Type SNS-P, FNS-P, ANS-P



Type SNS-W, FNS-W, ANS-W



Unit: mm

● Type DNS-W/P — Drip proof model of dual function pressure controls



Type DNS-P



Type DNS-W

TYPE NUMBER SELECTION (SPECIFICATIONS)

Automatic reset type

Unit: MPa {kgf/cm²}

Catalog No.		Pressure Side	Range		Differential		Factory Setting		Max. Working Pressure	Contact Function	Wt. (kg)
			Min.	Max.	Min.	Max.	Off	On			
DNS-D304X	W, P	Low Side	−0.06 {−50cmHg}	0.4 {6}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Diagram 3	DNS-W: Approx. 1.4 DNS-P: Approx. 0.9
		High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed. {Approx. 4 fixed.}		2 {20}	1.6 {16}	3.3 {33}		
DNS-D306X	W, P	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
		High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed. {Approx. 4 fixed.}		2 {20}	1.6 {16}	3.3 {33}		
DNS-D604X	W, P	Low Side	−0.06 {−50cmHg}	0.4 {6}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Diagram 5	
		High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed. {Approx. 4 fixed.}		2 {20}	1.6 {16}	3.3 {33}		
DNS-D606X	W, P	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
		High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed. {Approx. 4 fixed.}		2 {20}	1.6 {16}	3.3 {33}		

Manual reset type

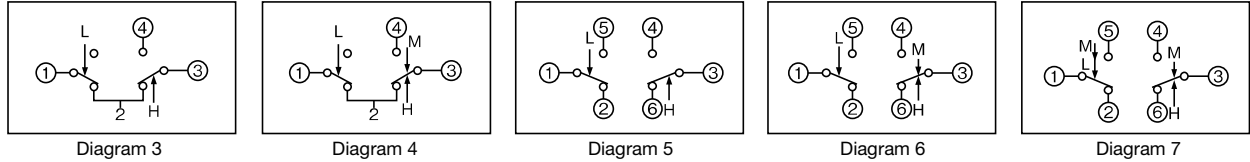
Unit: MPa {kgf/cm²}

Catalog No.		Pressure Side	Range		Differential		Factory Setting		Max. Working Pressure	Contact Function	Wt. (kg)
			Min.	Max.	Min.	Max.	Off	On			
DNS-D304XM	W, P	Low Side	−0.06 {−50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Diagram 4	DNS-W: Approx. 1.4 DNS-P: Approx. 0.9
		High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset.		2 {20}	manual reset	3.3 {33}		
DNS-D306XM	W, P	Low Side	−0.06{−50cmHg}	0.4 {4}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
		High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset.		2 {20}	manual reset	3.3 {33}		
DNS-D604XM	W, P	Low Side	−0.06{−50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Diagram 6	
		High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset.		2 {20}	manual reset	3.3 {33}		
DNS-D606XM	W, P	Low Side	−0.06{−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
		High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset.		2 {20}	manual reset	3.3 {33}		
DNS-D606XMM	W	Low Side	−0.06{−50cmHg}	0.6 {6}	Automatic operation on pressure decrease, and manual reset.		0.2 {2}	manual reset	1.5 {15}	Diagram 7	
		High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset.		2 {20}		3.3 {33}		

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

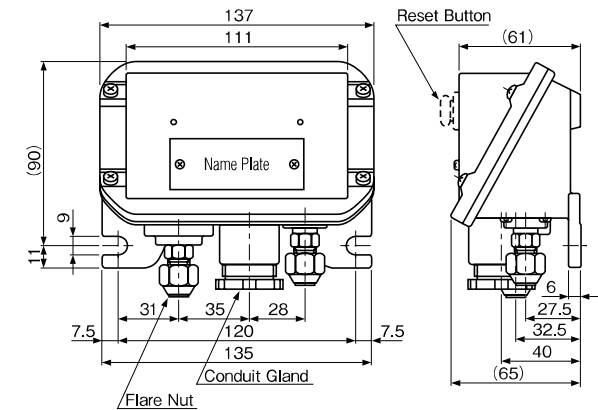
CONTACT FUNCTIONS



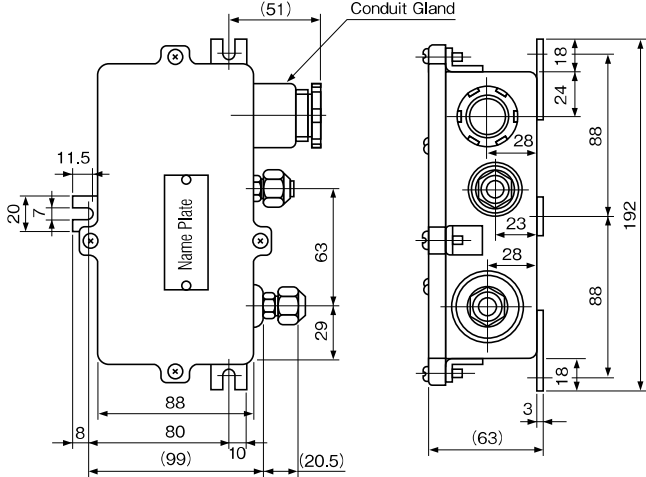
L ↓ : Operating direction on press. increase at Low Press. Side
H ↑ : Operating direction on press. increase at High Press. Side
M ↓ : Operating direction on manual reset

DIMENSIONS

Type DNS-P



Type DNS-W



Unit: mm