

TEMPERATURE CONTROLS

GENERAL PURPOSE

Type TNS, CNS & INS

SAGINOMIYA

GENERAL DESCRIPTION

- Type TNS is provided with a differential adjustable mechanism.
- Type CNS is provided with a fixed differential. Also manual reset models are available.
- Type INS provides automatic High-cut temp. control with manual reset.
- Narrow and adjustable temp. diff. for more accurate control model Type BNS is available.
- Available drip proof enclosure for marine application or explosion proof enclosure for special application.
- A mounting bracket is supplied as standard.
- With SPDT contact mechanism.
- IP44 with upper lid (option).

CE mark applicable (available upon request)

UL recognized (available upon request)



Type TNS



Type INS

TYPE NUMBER SELECTION (SPECIFICATIONS)

Type TNS—Automatic Reset Type

Unit: °C

Catalog No.	Range		Differential		Factory Setting		Limit Temp.	Bulb Size (mm)		Usage Condition	Wt. (kg)
	Min.	Max.	Min.	Max.	Off (On)	On (Off)		φ A	B		
TNS-C100X	-25	0	Bottom 4.5	15	-18	-15	70	6	80	Ts > Tb	0.34
TNS-C114X	-15	15									
TNS-C134X	0	35									
TNS-C1070X	45	75	4	20	61	65	115	12.7	100	Ts < Tb	0.37
TNS-C1100X	65	105									
TNS-C1120X	95	125	5	20	110	115	160	12.7	100	Ts < Tb	0.37
TNS-C1150X	115	150									
TNS-C1010XC	-45	10	4	20	-4	0	45	12.7	100	Ts ≅ Tb	0.37
TNS-C1034XC	-20	35									
TNS-C1070XC	15	70	4	20	16	20	70	12.7	100	Ts ≅ Tb	0.37
TNS-C114XQ009	-30	15									
TNS-C114XQ010	-30	15	Bottom 5	15	-8	-5	120	Capillary Tube Type		Ts > Tb	0.37
TNS-C134XQ009	-5	35			Top 2	15		12	15		
TNS-C134XQ010	-5	35	Top 2	15			12	15	Capillary Coil Type		Ts > Tb

- Bottom...Differential when the switch is set at minimum of range.
- Top...Differential when the switch is set at maximum of range.
- Ts...Ambient temp. of switch body. • Tb...Sensing bulb temp.
- Drip proof models: Available upon request. (Refer to pages 48, 49.)
- Enclosure: IP20

Type CNS—Automatic Reset Type

Unit: °C

Catalog No.	Range		Differential	Factory Setting		Limit Temp.	Bulb Size (mm)		Usage Condition	Wt. (kg)
	Min.	Max.		Off	On		φ A	B		
CNS-C115X	-35	-15	Bottom 4	-28	-25	70	6	80	Ts > Tb	0.34
CNS-C100X	-25	0								
CNS-C114X	-15	15								
CNS-C134X	0	35	Top 3	17	20					

- Bottom...Differential when the switch is set at minimum of range.
- Top...Differential when the switch is set at maximum of range.
- Ts...Ambient temp. of switch body. • Tb...Sensing bulb temp.
- Enclosure: IP20