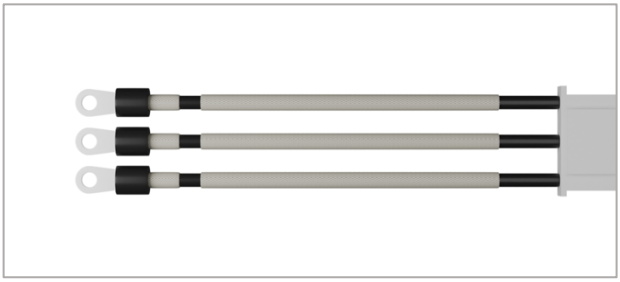
SENSOR_CNSH Series

Combination Type Structure



◆ Product Introduction

The thermistor sensor configured for parallel or series connection via a connector at the tail is an electronic component with unique advantages in the field of temperature measurement and control.

Its core component is the thermistor chip, which can accurately change its own resistance value based on temperature changes, making it key to temperature measurement.

This type of sensor is equipped with a connector at the tail. Common connector types include pin-type, plug-in type, etc., usually made of metals with good conductivity and mechanical strength, supplemented by insulating materials.

The presence of the connector allows the thermistor sensor to be connected conveniently and reliably to other electronic devices or sensors, enabling parallel or series connections according to actual needs.

◆ Features

1. Temperature measurement accuracy up to ±0.1℃, meeting high-precision application requirements
2. Supports a temperature measurement range of -40℃ to +150℃
3. Flexible and convenient connection
4. Diverse measurement methods
5. High precision and high sensitivity
6. Strong adaptability, easy to expand

◆ Applications

1. New Energy Vehicles
2. AI Servers, Server Power Supplies, Robots
3. BMS Energy Battery Systems
4. Industrial, Commercial Temperature Control Systems
5. Monitoring temperature of equipment like battery packs, generators

◆ Coding Principles

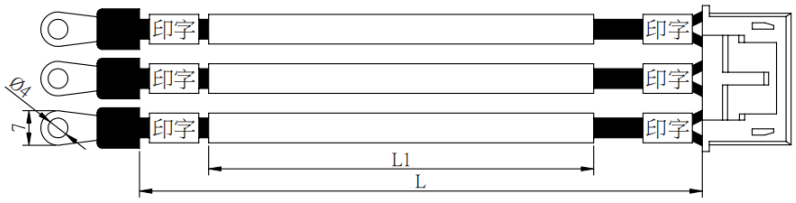
1	2	3	4		5	6	7	8	9		10	11	12~18
Product Type			Series			Resistance Value			Resistance value accuracy		B value		Internal Control Code
CNS	NTC Chip		H0	105℃	Combination Type Structure	103	10KΩ		F	±1%	34	B(25/85)=3435	
			H1	150℃		473	47KΩ		G	±2%	38	B(25/50)=3800	
			H2	80℃		502	5KΩ		H	±3%	39	B(25/50)=3950	
			H3	125℃					J	±5%	40	B(25/85)=4000	

◆ Specifications

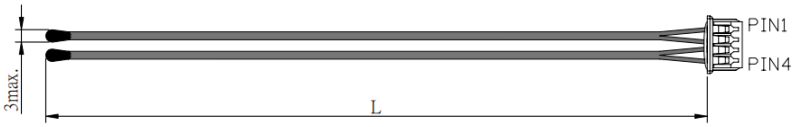
Part Number (Model No.)	Zero Power Resistance at 25℃	Tolerance of Resistance	B-Value	Thermal Dissipation Constant	Thermal Time Constant	Operating Temperature Range
	(KΩ)	(±%)	(K)	(mW/℃)	(s)	(℃)
CNSKC202@MM	2	1,2,3,5	(B25/85)3530	≤ 3	≤ 10	-40℃ ~ 150℃
CNSKC4A2@MM	4.7		(B25/100)3985			
CNSKC502@MM	5		(B25/50)3950			
CNSKC6A2@MM	6.8		(B25/50)3950			
CNSKC103@MM	10		(B25/85)3435			
CNSKC153@MM	15		(B25/50)4150			
CNSKC473@MM	47		(B25/50)3950			
CNSKC104@MM	100		(B25/85)3950			
CNSKC204@MM	200		(B25/50)3899			

K Customer application code May be A、E、F、G、H
C Temperature resistance rating:0(105℃)、1(150℃)、2(80℃)、3(125℃)
@ Resistance value accuracy:F:±1%; G:±2%; H:±3%; J:±5% or difference tolerance of the R25
MM B value

◆ Product



Application Scope	Industrial control cabinet, new energy equipment
Characteristics	Integrated structure, easy installation
Working Temperature	-40℃~+125℃
Thermal Time Constant	About 15 seconds



Application Scope	Inverter, charger
Characteristics	Small size, fast response speed
Working Temperature	-40℃~+125℃
Thermal Time Constant	About 10 seconds