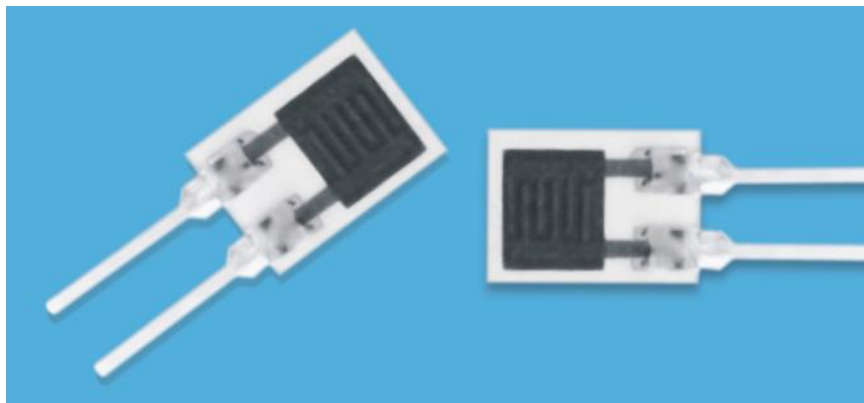


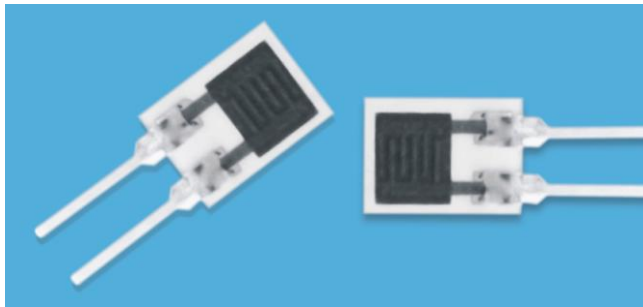
# Dewing sensor

HDS10 Product manual

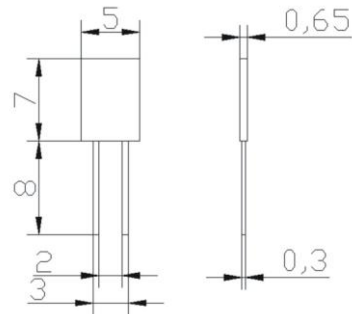


## 1、Product overview

HDS10 dewing sensor is feature stype switch element ,Is not sensitive to low humidity and only to high humidity sensitive, can work under dc voltage, stable quality, reliability, reached the international advanced level



The physical map



Overall dimensions ( unit: mm )

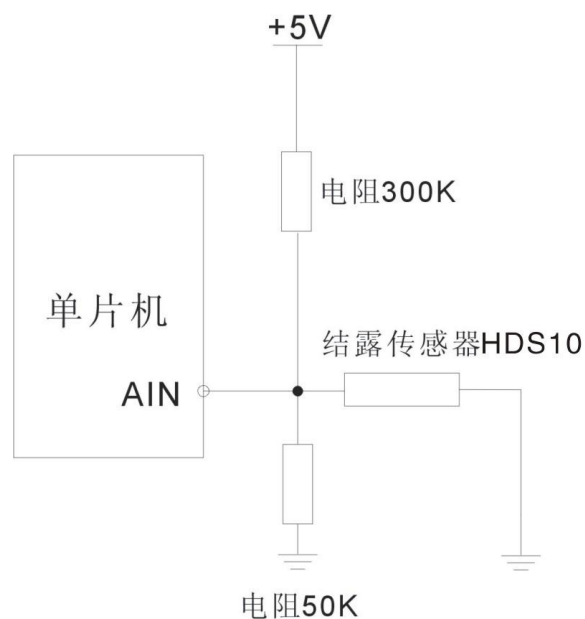
## 2、Applied The scope

Electronic, pharmaceutical, food, storage, tobacco, textile, meteorological industry. Temperature and humidity table, humidifier, dehumidifier, air conditioner, microwave ovens and other products

## 3、Product highlights

Response speed, strong ability to resist pollution, work under dc voltage, high reliability, good stability and high humidity environment has a very high sensitivity.

## 4、Circuit diagram



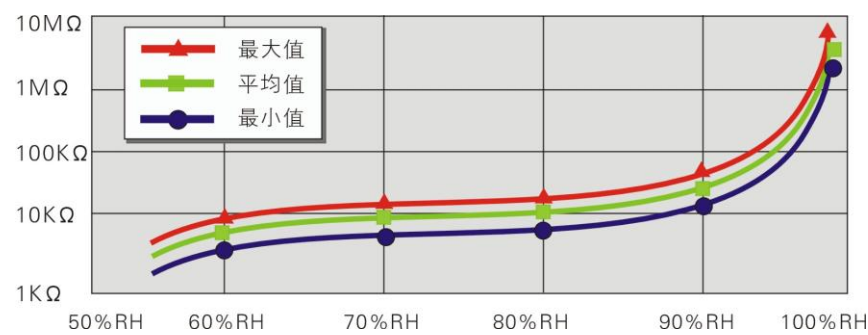
5、The product parameters

The power supply voltage : 0.8V DC (safety voltage)  
Using the temperature range : 1~80 °C  
Use the humidity range : 1 ~ 100%RH  
Condensation test range : 94 ~ 100%RH

6、Features parameters

project	Test conditions	specifications
Resistance value	75%RH 25℃	10KΩ Max
	93%RH 25℃	70KΩ Max
	100%RH 60℃	200KΩ Max
Response speed	25℃, 60%RH → 60℃, 100%RH	Less than 5 seconds
Temperature cycle	-40℃, 30minutes~ 85℃, 30minutes 5 cycle Relative humidity Resistance value	
Place	The high temperature85℃, 2000 hours	
	Low temperature -40℃, 2000 hours	
	Low temperature 40℃, 5%RH, 2000 hours	
	The high temperature40℃, 90~95%RH, 2000hours 25℃ 75%RH 20KΩ Max	
High humidity load	40℃, 90~95%RH 中加 DC 0.8V 2000 小时 25℃ 93%RH 90~100 KΩ	
Condensation cycle	25℃, 60%RH, 57 minutes 60℃	100KΩ 以上
	25℃, 100%RH, 3 minutes 2000 次 100%RH	100KΩ 以上

7、haracteristic diagram figure



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## **9. Warnings and personal injury**

Do not use this product as safety or emergency stop devices, as well as due to the failure of the product could result in personal injury to any other application, unless there are special purpose or use authorization. Before installation, handling, use or maintenance of the product to the reference product data sheets and application notes. Failure to comply with this recommendation, it may result in death and serious injury. The Company will not assume all claims of personal injury or death resulting, and thus exempt from any claims against the company managers and employees and affiliated agents, distributors, etc. that may arise, including: a variety of costs, damages costs, attorney fees, and so on.

## **10. Quality Assurance**

The company provides a period of 12 months (one year) quality assurance (calculated from the date of shipment from) their direct purchasers of the product. Data sheet published by the company for the product's technical specifications shall prevail. If within the warranty period, the product was confirmed quality is really flawed, the company will provide free repair or replacement. Users must satisfy the following conditions:

- ① The product is found defective within 14 days written notice to the Company;
- ② The product should be mailed back to the company to pay the purchaser;
- ③ The shelf life of the product should be.

The company only to those used in compliance with the technical condition and defects of products is responsible for. Company for its products used in those special applications without any warranty, guarantee or written statement. At the same time, the products applied to the products or reliability in circuit is also not to make any commitment.