# Datasheet HDS10

### **Dew sensor**

- Fast response
- Strong anti-pollution ability
- Working under DC voltage
- High reliability
- Good stability
- High sensitivity in high humidity environment

#### **Summary**

HDS10 dew sensor is a kind of positive characteristic switching-mode element, which is sensitive to high humidity. It can work under DC voltage with good stability, strong anti-pollution ability and fast response, which reaches the international advanced level.

## Application

HDS10 is dew sensor and mainly used for alarm. It can be applied in many fields, such as electronics, pharmaceutical, food, storage, tobacco, textiles and meteorology. It can also be used on many products, such as T/H meter, humidifier, dehumidifier, air conditioner and microwave oven.



Figure 1 HDS10 dew sensor

# 1. Specification

Table 1. Technical indicators of HDS10

Parameters	
Supply voltage (DC)	0.8 V
Operating temperature range	1~80 °C
Operating humidity range	1~100%RH
Condensation test range	94~100%RH
Characteristic parameters	
Resistance value (25 °C)	20 kΩ Max (75%RH)
	100 kΩ Max (93%RH)
	200 kΩ Min (100%RH)
Response time	<5 s (25 °C, 60%RH ~ 25 °C, 100%RH)

## 2. Dimension

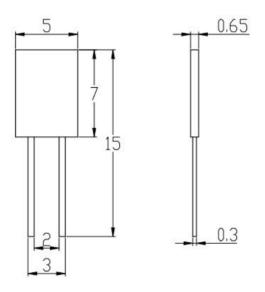


Figure 2. HDS10 outline dimensions (unit: mm)

## 3. Recommended circuit

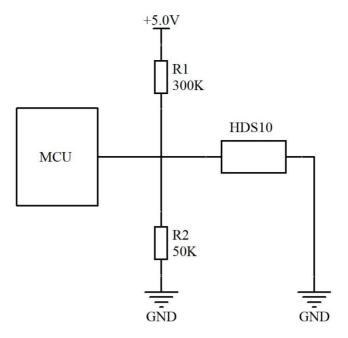


Figure 3. Recommended application circuit

## 4. Characteristic curve

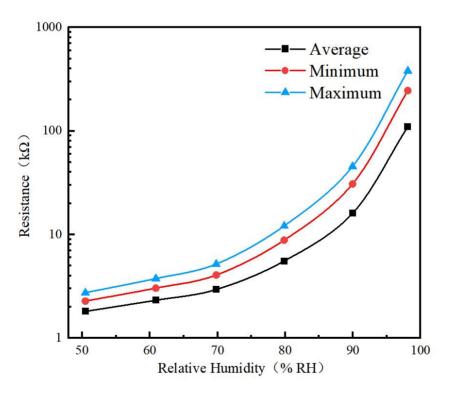


Figure 4. HDS10 characteristic curve

### Warning and personal injury

Do not apply this product to safety protection devices or emergency stop equipment, and any other applications that may cause personal injury due to the product's failure. Do not use this product unless there is a special purpose or use authorization. Refer to the product datasheet and application guide before installing, handling, using or maintaining the product. Failure to follow this recommendation may result in death and serious personal injury.

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Description of warranty period
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Accessories category	Shelf life
HDS10 dew sensor	12 months

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