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Datasheet of CHS-GSS - HUMIDITY SENSOR 5V 5% 3-PIN

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

納入仕様書

SPECIFICATION

仕様書番号

SPEC. No. C129NAA****

発行日 DATE:

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貴社品名 CUSTOMER'S PRODUCT NAME

弊社品名 TDK PRODUCT NAME HUMIDITY SENSOR UNIT CHS-GSS

受領印欄 THIS SPECIFICATION IS RECEIVED

受領日	年	月	日
DATE:	YEAR	MONTH	DAY

公TDK

TDK 株式会社

〒103 東京都中央区日本橋 1-13-1 TDK Corporation 1-13-1,Nihonbashi,Chuo-ku, Tokyo 103,Japan

扫	当	営業	所
므	=	一来	<i>[[]</i>

Sales Office___

営業担当者電話

Sales Tel.

営業部門

SALES

責任者 担当者 SALES

技術部門

ENGINEERING

責任者	確認者	担当者
APPROVED	CHECKED	ISSUED
BY	BY	BY

検索用製品分類コード

PRODUCT CLASSIFICATION CODE



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Product Information, Precautions and Warnings - IMPORTANT

Before use, please read the following carefully as the product use in improper conditions may shorten product life. Please confirm the functional life in your usage conditions ahead of actualinstallations. Although TDK makes its utmost effort to constantly improve reliability of its product quality, your misuse may cause the product malfunctioning and property damage and/or human injury. For this reason, TDK requests that customers use the products with sufficient handling care and add a safeguard design upon your application so as to prevent malfunctioning of your systems, serious damages, personal accidents, fires and other possible damages, which may result from using these products of ours.

Precaution:

The product's operating life is limited because the products are constantly exposed to various environments when used. For this reason, this "operating life" must be taken into consideration before use.

(1)Storage

- Store the products within the "absolute maximum ratings" specified.
- Do not store the products in dusty places or in places where corrosive gases are generated.
- When storing CHS series humidity sensors for long(over 1 year) or storing in places with high temperature and high humidity or where sudden temperature change may occur, the humidity-sensitive film on the sensor elements as well as the solderability of the terminals of the sensor unit may deteriorate to cause output changes in excess of the guaranteed ranges.

(2)Operating Environment and Conditions

- · Use CHS series within the "absolute maximum ratings" of the operating environmental conditions specified.
- Electrically, such as input voltages, please stay within our electrical specifications.
- Avoid usage in locations subject to corrosive gases or excessive dust as these may cause the element's deterioration, resulting in output changes in excess of guaranteed ranges. Please consider measures to keep the corrosive gases from entering the sensor unit, for example, by a special jig to seal it, particularly during a solder flow process where flux-decomposed gases generate.
- Avoid usage in locations subject to excessive dewing or to water or salt water, as it may deteriorate the element to cause output changes in excess of guaranteed ranges.

(3)Handling

- · Applying excessive physical impacts to the sensor, such as by dropping, should be strictly avoided.
- Avoid applying excessive mechanical stress onto the product, for instance, when forming the terminals, for it may cause damages to the component.

变更履歴

Revision Records

	n Records			
版 Rev.	年月日 Date	担 当 Revised By		更 内 容 evision
事業部(部) Div.		ß)	作成日 Date	仕様書番号 Spec. No.
Sensor Actuator Business Group				C129NAA****



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1. 適用範囲 Scope of .	Application						
本仕様書は	殿へ納	入する <mark>湿</mark>	度センサユ	ットに適用	する。		
This specification	n shall be	applied	to the	product	HUMIDITY	SENSOR	UNIT
to be delivered t	o Messrs	<u> </u>					

2.製品の名称 Name of Product

本仕様書に定める製品の名称は CHS-GSS とする。

The name of the product to be defined in this specification shall be defined as CHS-GSS.

- 3. 関連規格 Related Spec.
- 4.記載項目 Description

Items	Attached drawing and tables	Page
HANDLING AND PRECAUTIONS		1/6
1.Maximum Ratings		3/6
2.Ratings		3/6
3.Characteristics		4/6
4.Appearance Structure and Dimensions		5/6
5. Marking		5/6
6. Mechanical Performance Characteristics		6/6

変更履歴

Revision Records

版	年月日	担当	変 更 内 容		
Rev.	Date	Revised	Revision		
		Ву			
	事業部(部	部)	作成日	仕様書番号	
Div.			Date Spec. No.		
Sensor Actuator		uator		C129NAA****	
E	Business G	roup			



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1. MAXIMUM RATINGS

Power voltage	+7V D.C. (at 25deg)
	During operating: 0 to +50 deg, 5Vdc power voltage, without dewing During storage: -20 to +60 deg, without dewing

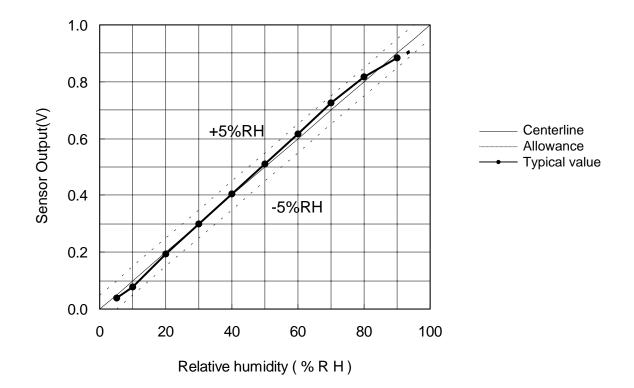
2. RATINGS

Item	Ratings			Unit	Conditions	
Item	Min.	Тур.	Max.	Offic	Conditions	
Operating voltage(Vo)	4.75	5	5.25	V		
Operating current			0.6	mA	Vo=5.0V 25 deg	
Output voltage		10		mV/%RH	Vo=5.0V 25 deg 5%RH to 95%RH	
Output impedance		(200)		k	at DC	
Accuracy	-5		+5	%RH	Vo=5.0V 25 deg 5%RH to 90%RH (See characteristics chart.)	
Temperature dependency	-5		+5	%RH	Vo=5.0V 5 to 45 deg (25 deg standard) (See characteristics chart.)	
Hysteresis		0		%RH	Allow 20 minutes for stabilization	
Response time		1		min.	response 90% humidity change between 30%RH and 85%RH	
Recommended operating temperature	5		45		Vo=5.0V without dewing	

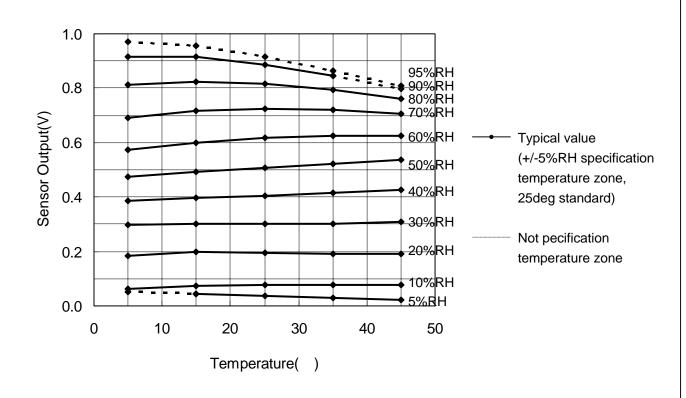


3. CHARACTERISTICS (Representative example)

3-1. LINEARITY CHARACTERISTICS

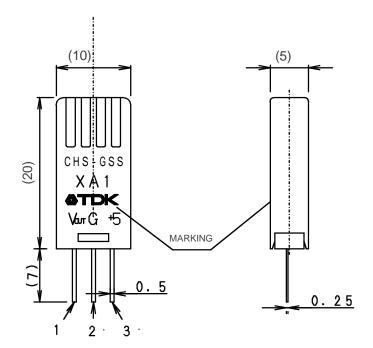


3-2.TEMPERATURE CHARACTERISTICS



図面名:NAME OF DRAWING 図番:DRAWING No. 頁:PAGE

4. APPEARANCE STRUCTURE AND DIMENSIONS

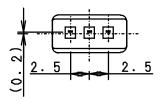


Pin No.1 Sensor output Pin No.2 GND

Pin No.3 Vcc

Unit: mm

Tolerance: +/-0.2 Weight: 1.05g typ.



5. MARKING

CHS-GSS

XA1

公TDK

Vout G +5

X A 1

Secret number

* Symbols, color dots, and the like may be added as necessary

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6. MECHANICAL PERFORMANCE CHARACTERISTICS

ITEM	TEST CONDITION	SPECIFICATIONS
VIBRATION RESISTANCE	at frequencies of 5 to 55Hz, at amplitude of 2.0mm into the X, Y and Z directions, each for two hours.	Deviation from initial value +/-5%RH or less
SHOCK RESISTANCE	at 100G,for 6msec, three times in each of the X, Y and Z directions.	
NATURAL FALL	from a height of 30cm onto concrete floor.	
HIGH- TEMPERATURE STORAGE TEST	+60 deg 240h	Deviation from initial value +/-5%RH or less
LOW- TEMPERATURE STORAGE TEST	-40 deg 240h	
THERMAL SHOCK TEST	-40 to +60 deg each lasting 30 min. 10cyc	
TEMPERATURE CYCLE	-40 to +60 deg Stable time 1h, rise and fall time 1h. 10cyc	