

APPROVAL DATA SHEET

Customer :

Application : Pipe temperature detection

Product : Clip-On Temp. sensor

Model No. : HW-N2.782.603-22

Drawing No. :

Rating :

Date : 02,July,2012

Version : V.1.0

紘緯科技股份有限公司

Honest-Well Co., Ltd.

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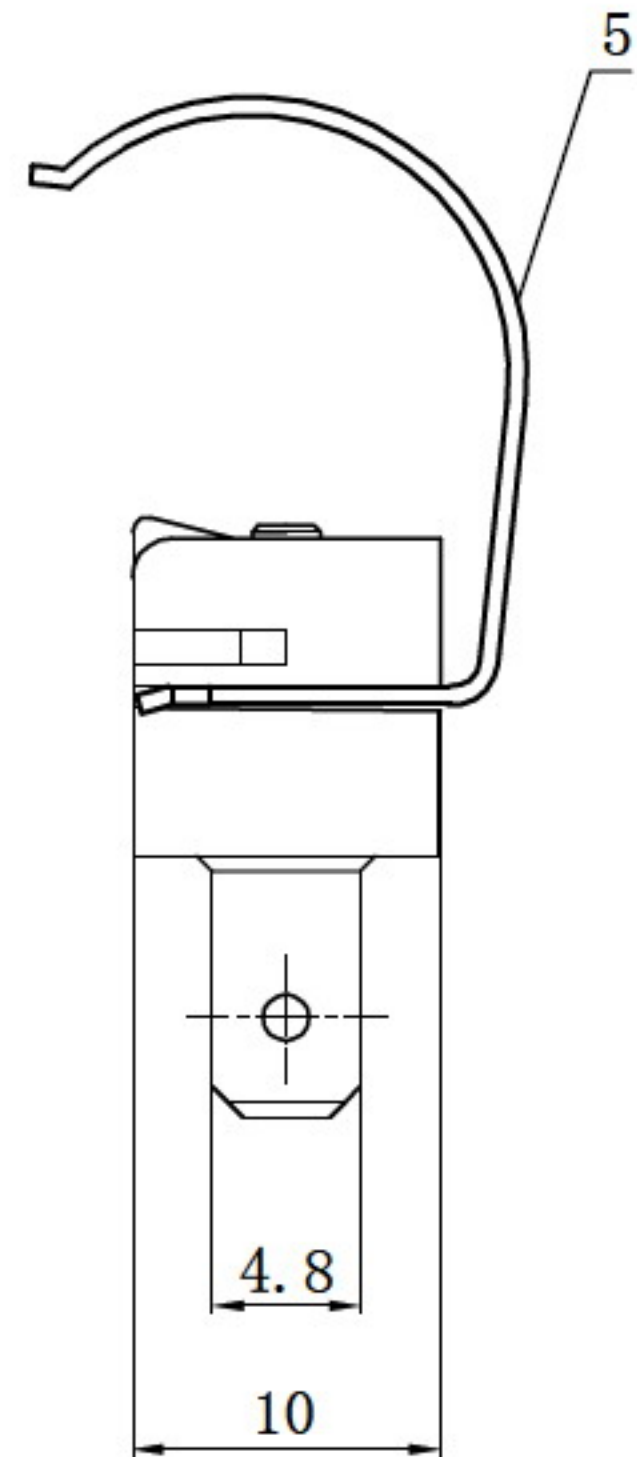
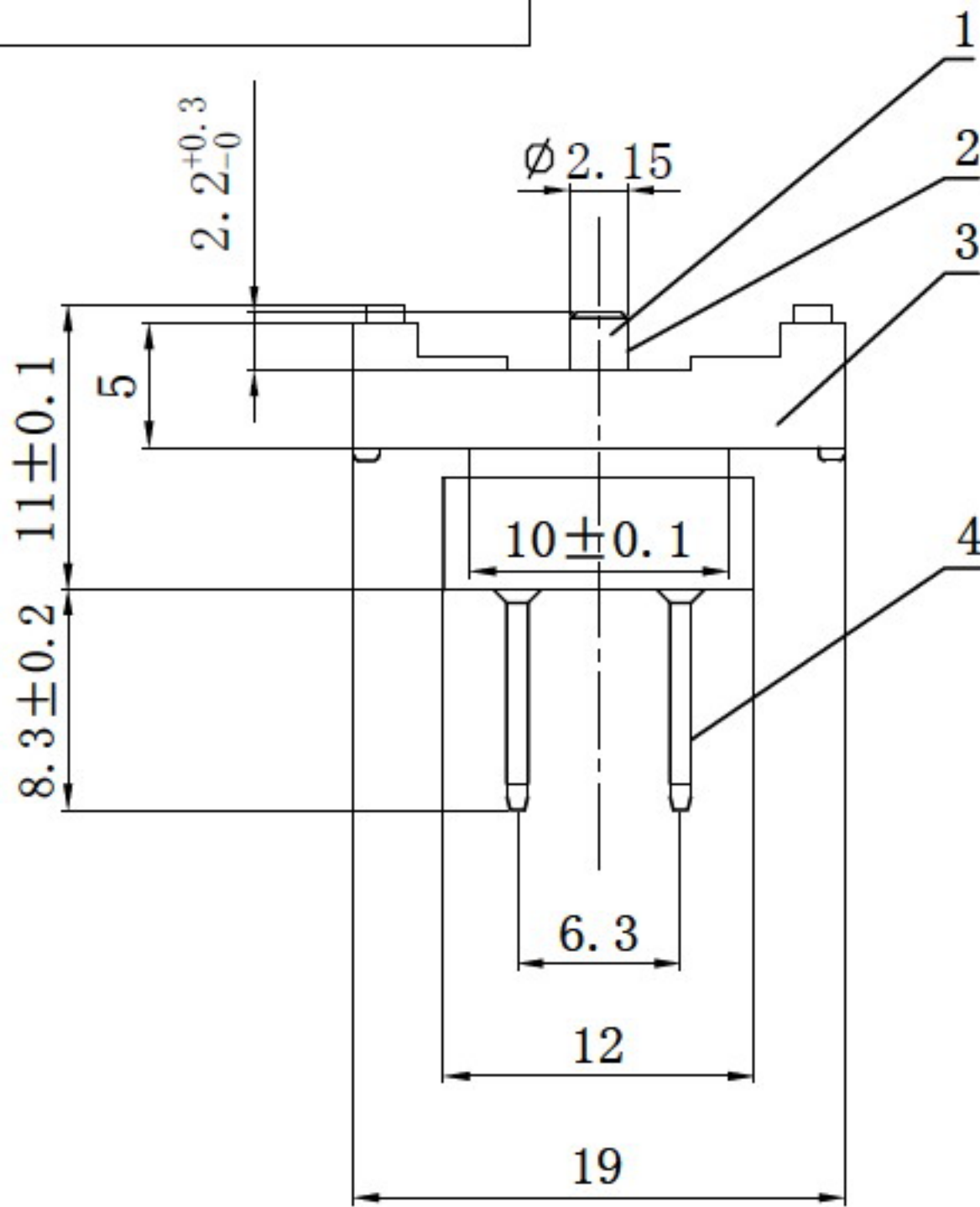
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<http://www.honest-well.com.tw>

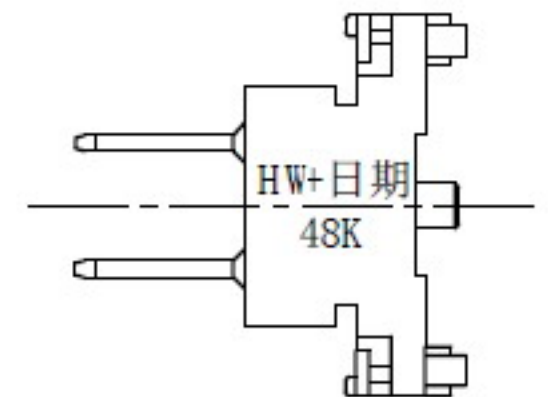
HW-N2.782.603-22

unit:mm



技术要求 TECHNICAL SPECIFICATION

- 1、标称阻值ZERO POWER RESISTANCE:R60=12.00k Ω ±1%; R25=48.00k Ω ±8%;
- 2、B-VALUE:B25/85=3977K ±1%;
- 3、使用温度范围OPERATING TEMPERATURE RANGE:5~+95 °C;
- 4、绝缘电阻：水中500VDC，大于1MΩ；
INSULATION RESISTANCE:IN WATER 500VDC,1M Ω MIN;
- 5、耐电压：传感器外壳与引线间施加500VAC电压，1秒钟，
无闪络或击穿现象（在水中）；
DIELECTRIC STRENGTH:IN WATER 500VAC,1sec ,NO FLASH OVER ；
- 6、本产品必须符合欧盟“RoHs”标准。ALL PARTS ARE TO BE RoSH COMPLIANT ；
- 7、印字内容：“HW+日期 48K”，如图；PRINTED MARKING：“HW+DATA 48K”；
- 8、Response time for 90% of a temperature step of 40 °C:Typical 5 seconds,Maximum 7 seconds.



● Available clip : φ 12 , φ 13.5 , φ 18

φ 12卡圈	5	2938	卡圈 CLIP	1		
4.8x0.8铜插片	4	2942	插片 CONTACT	2		
注塑件 PLASTIC	3	2675	注塑件 PLASTIC	1		
φ 2.15x5 Cu+S	2	2119A	外壳PROTECTED TUBE	1		
TG39A483F-60P 单端	1		NTC THERMISTOR	1		
MATERIAL & SIZE		NO.	(HC) P/N	NAME	QTY	
					HW-N2.782.603-22	
REVISIONS	QTY				TITLE	SIGN
设计 DESIGNED					A	2012.6.28
校对 CHECKED					Honest-Well Co., Ltd. 絃緯科技股份有限公司 Thermonie	
审核 AUDITED						
批准 APPROVED						

R-T CONVERSION TABLE

R60=12.00K Ω \pm 1%

B25/85=3977K \pm 1%

TX($^{\circ}$ C)	Rmin(K Ω)	Rnom(K Ω)	Rmax(K Ω)	TX($^{\circ}$ C)	Rmin(K Ω)	Rnom(K Ω)	Rmax(K Ω)
1	145.6	150.8	156.2	31	36.47	37.26	38.06
2	138.4	143.3	148.4	32	34.97	35.72	36.47
3	131.6	136.2	141.0	33	33.55	34.24	34.95
4	125.3	129.6	134.0	34	32.19	32.84	33.51
5	119.2	123.2	127.4	35	30.89	31.51	32.13
6	113.5	117.3	121.2	36	29.65	30.23	30.81
7	108.0	111.6	115.2	37	28.47	29.01	29.56
8	102.9	106.2	109.7	38	27.34	27.85	28.37
9	98.07	101.2	104.4	39	26.27	26.74	27.23
10	93.50	96.43	99.45	40	25.23	25.68	26.14
11	89.11	91.86	94.69	41	24.25	24.67	25.10
12	85.00	87.58	90.23	42	23.31	23.71	24.11
13	81.11	83.54	86.02	43	22.42	22.79	23.16
14	77.41	79.69	82.02	44	21.56	21.90	22.26
15	73.89	76.03	78.22	45	20.73	21.06	21.39
16	70.55	72.56	74.62	46	19.95	20.25	20.56
17	67.40	69.29	71.22	47	19.20	19.49	19.78
18	64.39	66.16	67.97	48	18.48	18.75	19.02
19	61.51	63.17	64.87	49	17.79	18.04	18.30
20	58.82	60.38	61.98	50	17.13	17.37	17.60
21	56.22	57.68	59.18	51	16.50	16.72	16.94
22	53.80	55.18	56.59	52	15.89	16.10	16.31
23	51.47	52.77	54.09	53	15.32	15.51	15.71
24	49.24	50.46	51.70	54	14.76	14.94	15.12
25	47.15	48.29	49.46	55	14.23	14.40	14.57
26	45.14	46.22	47.31	56	13.72	13.87	14.03
27	43.24	44.25	45.28	57	13.23	13.38	13.52
28	41.42	42.37	43.33	58	12.76	12.90	13.04
29	39.69	40.58	41.49	59	12.31	12.44	12.57
30	38.04	38.88	39.74	60	11.88	12.00	12.12

R60=12.00KΩ±1%

B25/85=3977K±1%

TX(°C)	Rmin(KΩ)	Rnom(KΩ)	Rmax(KΩ)	TX(°C)	Rmin(KΩ)	Rnom(KΩ)	Rmax(KΩ)
60	11.88	12.00	12.12	81	5.771	5.871	5.972
61	11.45	11.57	11.69	82	5.588	5.687	5.787
62	11.05	11.17	11.29	83	5.410	5.508	5.606
63	10.66	10.78	10.90	84	5.237	5.333	5.430
64	10.28	10.40	10.52	85	5.074	5.169	5.264
65	9.928	10.05	10.16	86	4.916	5.009	5.103
66	9.585	9.702	9.820	87	4.762	4.853	4.946
67	9.252	9.369	9.486	88	4.614	4.705	4.796
68	8.934	9.050	9.166	89	4.472	4.561	4.651
69	8.630	8.745	8.860	90	4.335	4.422	4.511
70	8.336	8.450	8.564	91	4.203	4.289	4.377
71	8.057	8.169	8.283	92	4.075	4.160	4.247
72	7.787	7.898	8.011	93	3.952	4.036	4.121
73	7.527	7.637	7.748	94	3.833	3.916	3.999
74	7.276	7.385	7.496	95	3.719	3.800	3.882
75	7.036	7.144	7.253	96	3.608	3.688	3.769
76	6.805	6.911	7.019	97	3.501	3.579	3.659
77	6.578	6.684	6.790	98	3.398	3.475	3.554
78	6.367	6.471	6.576	99	3.298	3.374	3.451
79	6.160	6.263	6.367	100	3.202	3.276	3.352
80	5.963	6.064	6.167				

