

TECHNICAL PRODUCT INFORMATION

Temperature Sensor

TTS/APR 1.0

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This product has to be used with the HDL Dry Contact 4CH Sensor, M/S04.1 specified in its own Technical Product Information.

Compiled by: Mr. He, Technical Manager, KNX-Products

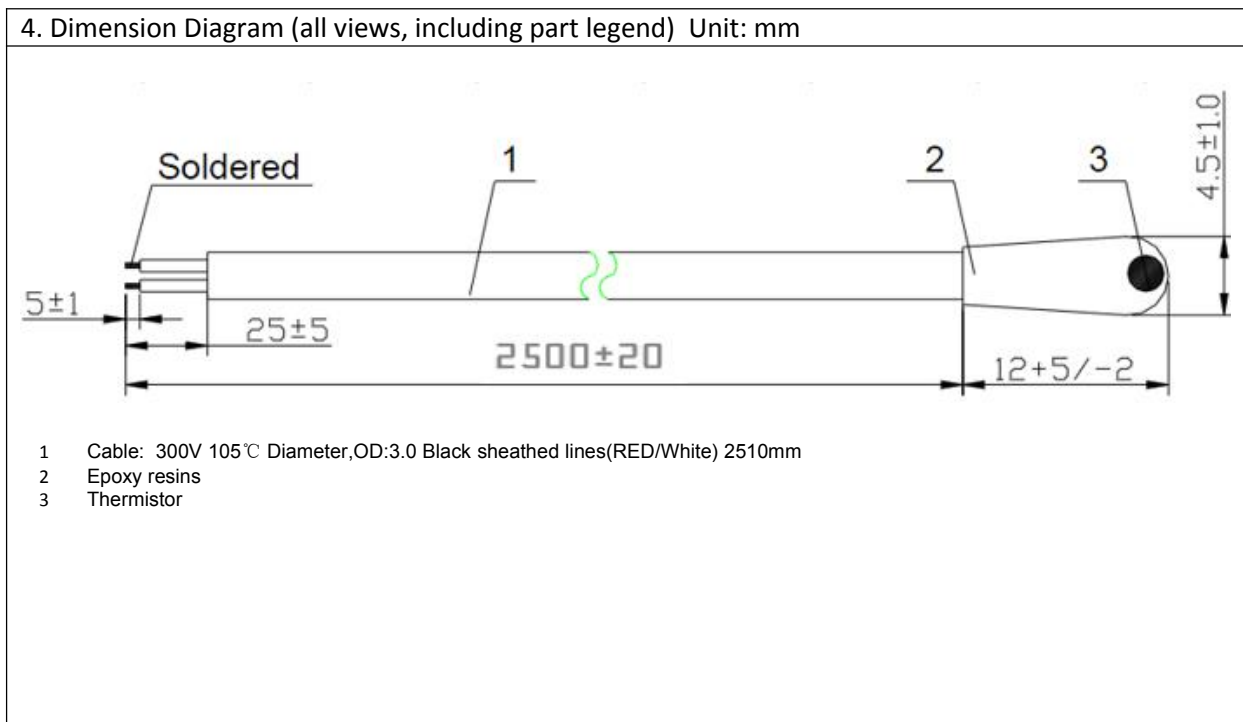
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1.Document History			
Version	Date	Comments	Author (english name)
draft	01.03.2015	First issue	Ms. Eva Kuan

2. General	
Product name	Temperature Sensor
Article number	TTS/APR 1.0
Bus-type	Not applicable
Product description/functions	Accessory for HDL Dry Contact 4CH Sensor, M/S04.1



5. Technical Data	
Type	R-type
Operating temperature	-30°C ..+105 °C
Accuracy	+/-1%
Resistive Range (Ω)	See table, chapter 14
Operating Voltage	3V DC
Current	0.5mA
Power Consumption	5mW /°C
Insulated Resistance	100 M Ω (500VDC. in air)
Breakdown Voltage	3000V AC
Vibration	Not applicable

6. Terminal	
Type	Cable-type: no supplier information Length: 2510mm, sheath diameter: 3mm, black Stranded wire diameter: 0.3mm Non insulated cable-end length: 5±1mm, soldered No polarity
Permitted max. cable length/extension	100m
Safety	Not applicable

7. User interface	
Control	Not applicable
Display	Not applicable

8.Mounting/Installation	...
Installation/Environment/Applications	Indoor/Outdoor-type

9. Classifications	
Protection-Rating (Protection against intrusion, dust, contact, water)	IP67-Code (EN 60529)
Protection-Class (Protection against electric shock)	Not applicable
Degree of pollution	Not applicable
Overvoltage class	Not applicable
KNX-Bus-classification	Not applicable
Fire Load	Not applicable

10. Climatic Conditions	
Temperature range	(GB/T13582-92) Operation: -30°C..+105°C Storage: -30°C..+105°C Transport: -30°C..+105°C
Relative humidity	(GB/T13582-92) Max. 93% non-condensing

11. Mechanical data sensor head	
Dimensions	Diameter: 4.5mm, Length:17mm
Weight	17.5g
Housing material	Epoxy Resin
Fire load	Not applicable

12. Reliability	
Failure rate	Not applicable
MTBF	Not applicable
Operation cycles/times	Not applicable
Life expectancy	Min. 10 years

13. Certification	
CE-mark	M/S04.1-EMC-test-report: CTS, CGZ3150122-00053-E, 30. January 2015 RoHS-test-report: CTS, CGZ3141230-04396-C-R1, 23. January 2015 REACH: HDL, Declaration of REACH conformity, 22. January 2015

14. Temperature-resistance HDL-supplier information

TEMP. T (°C)	RESISTANCE R (K Ω)	TEMP. T (°C)	RESISTANCE R (K Ω)	TEMP. T (°C)	RESISTANCE R (K Ω)	TEMP. T (°C)	RESISTANCE R (K Ω)
-30	130.53	4	24.23	38	6.146	72	2.047
-29	124.66	5	23.16	39	5.930	73	1.988
-28	118.79	6	22.15	40	5.724	74	1.931
-27	112.99	7	21.19	41	5.525	75	1.876
-26	107.32	8	20.27	42	5.335	76	1.822
-25	101.80	9	19.40	43	5.153	77	1.770
-24	96.48	10	18.57	44	4.978	78	1.720
-23	91.37	11	17.79	45	4.810	79	1.672
-22	86.50	12	17.04	46	4.649	80	1.625
-21	81.87	13	16.32	47	4.494	81	1.580
-20	77.48	14	15.65	48	4.345	82	1.536
-19	73.54	15	15.00	49	4.202	83	1.494
-18	69.79	16	14.39	50	4.064	84	1.453
-17	66.22	17	13.80	51	3.932	85	1.413
-16	62.83	18	13.24	52	3.805	86	1.374
-15	59.60	19	12.71	53	3.682	87	1.337
-14	56.54	20	12.20	54	3.565	88	1.301
-13	53.62	21	11.72	55	3.451	89	1.266
-12	50.85	22	11.26	56	3.342	90	1.232
-11	48.22	23	10.82	57	3.237	91	1.199
-10	45.73	24	10.40	58	3.136	92	1.167
-9	43.55	25	10.00	59	3.039	93	1.136
-8	41.52	26	9.617	60	2.945	94	1.106
-7	39.61	27	9.252	61	2.855	95	1.077
-6	37.82	28	8.903	62	2.767	96	1.048
-5	36.13	29	8.569	63	2.683	97	1.021
-4	34.56	30	8.250	64	2.602	98	0.9942
-3	33.07	31	7.945	65	2.524	99	0.9684
-2	31.67	32	7.653	66	2.448	100	0.9434
-1	30.35	33	7.374	67	2.375	101	0.9182
0	29.10	34	7.106	68	2.305	102	0.8938
1	27.79	35	6.850	69	2.237	103	0.8702
2	26.54	36	6.605	70	2.172	104	0.8470
3	25.36	37	6.371	71	2.108	105	0.8244

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