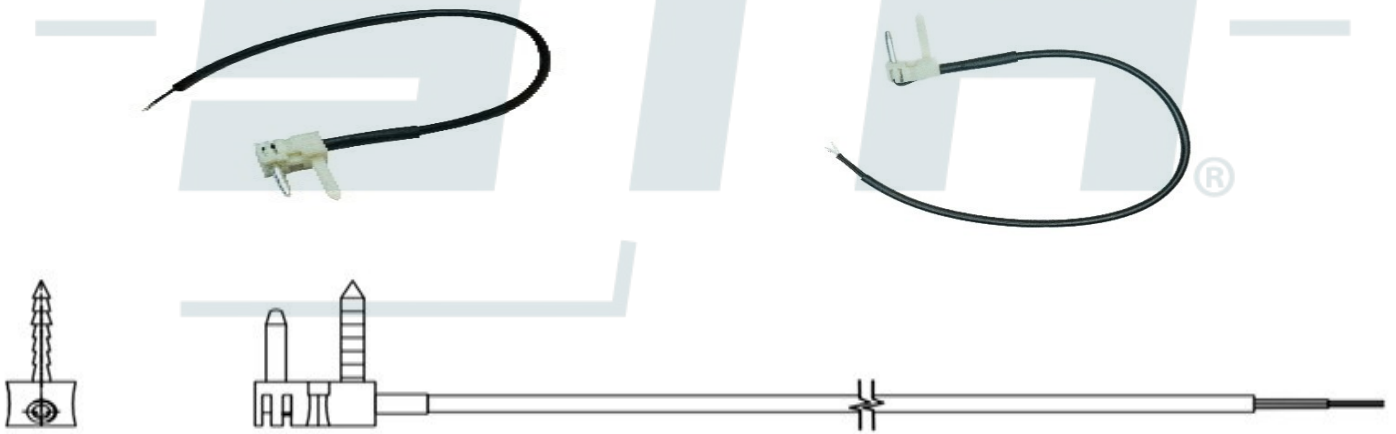


PRODUCT CATALOGUE : EVAPORATOR SENSOR

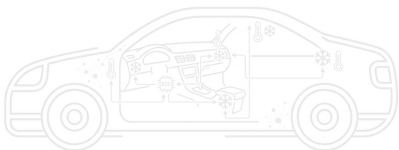
1. Product Description

STH Branded Evaporator thermistor Sensor is engineered typically mounted on or near the evaporator coil to measure surface or air temperature, allowing the control system to regulate cooling performance. Its specifically Designed to Prevent evaporator coil freezing and thus Improve energy efficiency and system reliability in HVAC, refrigeration, and automotive AC systems. Our group of professionals check and examine our premium line of STTS on different required parameters. We offer Evaporator Sensors at nominal prices to make a long-term relationship with our esteemed customers.

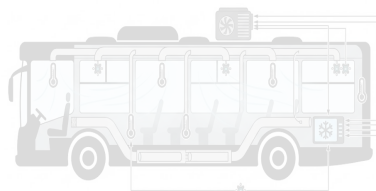
2. Drawing and Images



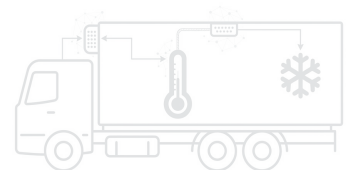
3. Application



*** Private Automobile HVAC Sensing**



*** Passenger Motor Vehicle HVAC Sensing**



*** Commercial Motor Vehicle HVAC Sensing**

3. Electrical Data (Resistance And Beta Values)

Resistance At 25°C (Ω)	(25°C/85 °C) (K)	Resistance At 25°C (Ω)	Beta Value (25 °C/85 °C) (K)
2000	3540	20000	4000
2057	3540	30000	4050
2800	3900	47000	4100
3000	3977	49300	3960
4700	3977	50000	4100
5000	3977	100000	4400
10000	3977	170000	4250

4. Reliability Data

Test	Standard	Test Conditions	Change In R	Remarks
Storage in dry heat	IEC 60068-2- 2	Storage at upper category temp T: 100°C t: 1000 h	<2%	No Visible Damage
Storage in damp heat, steady state	IEC 60068 - 2- 78	Temp of air: 40 °C Relative humidity of air: 93 % Duration: 56 days	<2%	No Visible Damage
Rapid temperature cycling	IEC 60068 - 2- 14	Lower test temp: -30°C Upper test temp: 100°C Time to change from lower to upper temperature: <30 s Number of cycles: 1000 Medium: air	<2%	No Visible Damage
Storage in coldness		Storage at lower category temp T: -30 °C t: 1000 h	<2%	No Visible Damage
Vibration resistance	IEC 60068-2-6	Frequency range: 5 to 500 Hz Amplitude: 7.5 mm, 2 g Duration: 3 x 8 h	<3%	No Visible Damage
Long-term stability (empirical value)		Temperature: 100 °C t: 10000 h	<3%	No Visible Damage
Voltage proof Test		1250 V AC, 1 s	<3%	No flashover
Insulation test		The sensors are placed in a vessel containing metallic balls of 1 mm diameter (with total immersed head). The applied voltage is 100 V DC.		Above 100 MΩ

4. Part Number Identification

STTS 111		R2		E143		V		M 311		3930	
Product Category										Beta Value @ (25 ° C/85 ° C)	
STTS	NTC THERMISTOR TEMPERATURE SENSOR SERIES									3930	3930 K
Resistance Value @25 ° C (In Ohm Unit)										3977	3977 K
111	1100 Ohm									3435	3435 K
103	10000 Ohm									Wire Length	
302	3000 Ohm									311	310 MM
Resistance Value Tolerance										451	450 MM
R1	1% Tolerance in Resistance Value									501	500 MM
R2	2% Tolerance in Resistance Value									Wire Gauge	
R3	3% Tolerance in Resistance Value									M	AWG 22
Encapsulation										K	AWG 24
E143	5.5* 23.5 MM Aluminium Tube in Plastic Part									H	AWG 26
E18	6*25 MM Copper Tube									Wire Type	
E45	5*25 MM Nickel Plated Plastic Tube									V	PVC Twin Parallel Copper Wire
										N	XLPE Multi Strand Copper Wire
										U	PVC Multi Core copper wire