

Temperature sensor

ST2

Replacement
for
KTY83

Applications

- Household appliances
- Electronics
- Engineering
- Automotive

Benefits

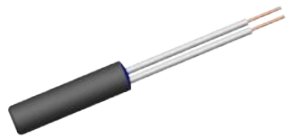
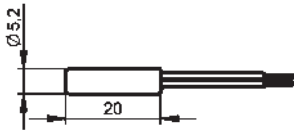
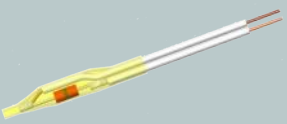
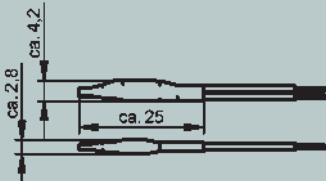
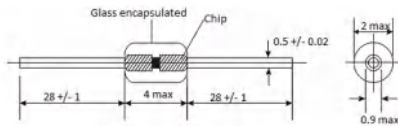
- Temperatures from -40°C up to $+170^{\circ}\text{C}$
- Excellent long-term temperature stability
- High precision and reliability
- No polarity reversal (+/-) possible

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Technical data

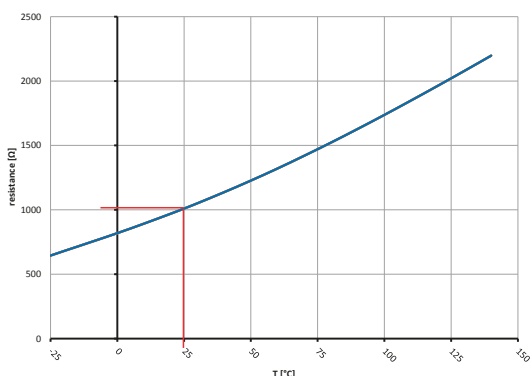
ratings \ type	STS2
typ. resistance at 100°C (+-3%)	1010 Ω
operating temperature range	-40°C ... +140 (145)°C
min. insulation resistance (100 Vdc)	100 MΩ
operating current	5 mA
max. rated power	50 mW

Standard types

type execution	illustration	drawing dimensions (mm)	technical description
STS2 G918			housing PPS leads ETFE, AWG24, white
STS2 U129			shrink sleeve Kynar® leads ETFE, AWG24, white
STS2 CHIP			chip only no insulation, no leads

Temperature vs. resistance

T°C	-10	0	10	20	25	30	40	50	60	70	80	90	100	110	120	130	140
min.	735	806	881	959	1000	1039	1123	1210	1301	1396	1494	1596	1699	1806	1912	2024	2135
typ.	749	819	893	970	1010	1051	1137	1227	1321	1420	1522	1628	1737	1849	1963	2079	2197
max.	762	832	905	981	1020	1063	1151	1244	1342	1444	1550	1660	1775	1891	2014	2134	2258



ordering example

STS2 1010 1 L360 500 G918

- STS2: Type of sensor
- 1010: R at 25°C
- 1: Tolerance (%)
- L360: Leads white, AWG24, ETFE
- 500: Length of leads (+/- 10 mm)
- G918: Housing number

Remark: Values of electric resistance correspond almost exactly to KTY83.
Above 140°C the sensor may lose its linearity.



CANTHERM™

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