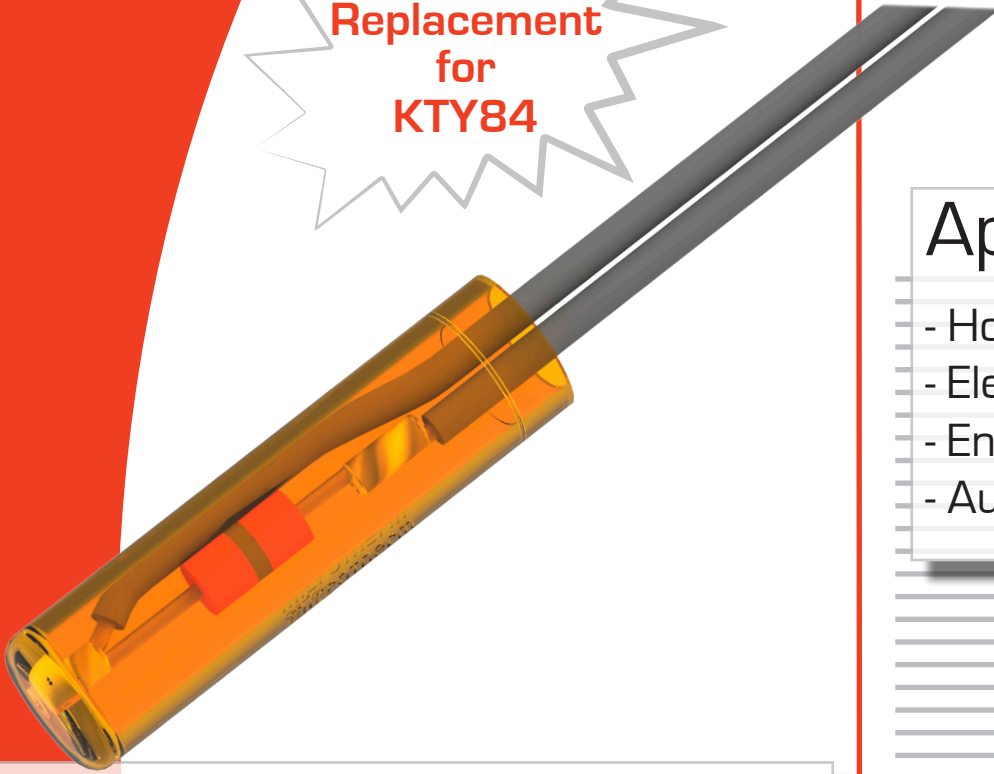


Temperature sensor

STS

Replacement
for
KTY84



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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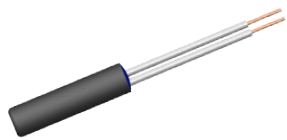
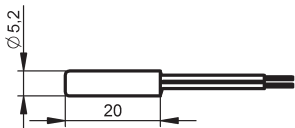
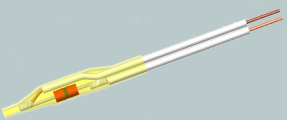
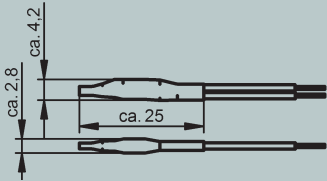


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Technical data

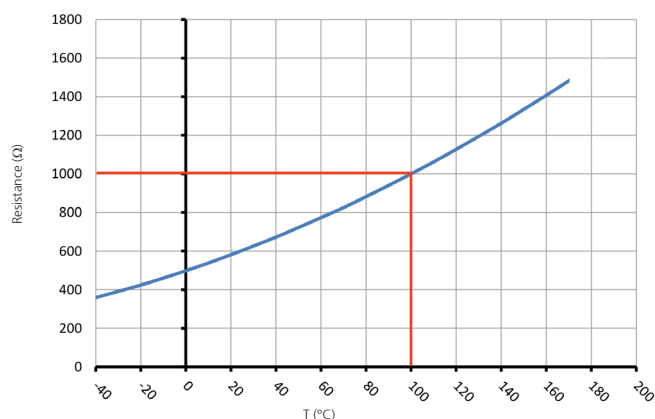
ratings	type	STS1
typ. resistance at 100°C (+/-3%)		1000 Ω
operating temperature range		-40°C ... +170 (190)°C
min. insulation resistance (100 Vdc)		100 MΩ
max. operating current		8 mA
rated current		5 mA
max. rated power		50 mW

Standard types

type execution	illustration	drawing dimensions (mm)	technical description
STS1 G918			housing PPS leads ETFE, AWG24, white
STS1 U129			shrink sleeve Kynar® leads ETFE, AWG24, white

Temperature vs. resistance

T°C	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
min.	340	370	403	437	474	514	555	599	645	694	744	797	852	910	970	1029	1089	1152	1216	1282	1350	1420
typ.	359	391	424	460	498	538	581	626	672	722	773	826	882	940	1000	1062	1127	1194	1262	1334	1407	1482
max.	379	411	446	483	522	563	607	652	700	750	801	855	912	970	1030	1096	1164	1235	1309	1385	1463	1544



Ordering example

STS1 1000 3 L360 500 G918

- STS1: Type of sensor
- 1000: R at 100°C
- 3: Tolerance (%)
- L360: Length of leads (+/- 10 mm)
- 500: Leads white, AWG24, ETFE
- G918: Housing number

Remark: Electric resistance values correspond to KTY84.
Above 170°C the sensor may lose its linearity.

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