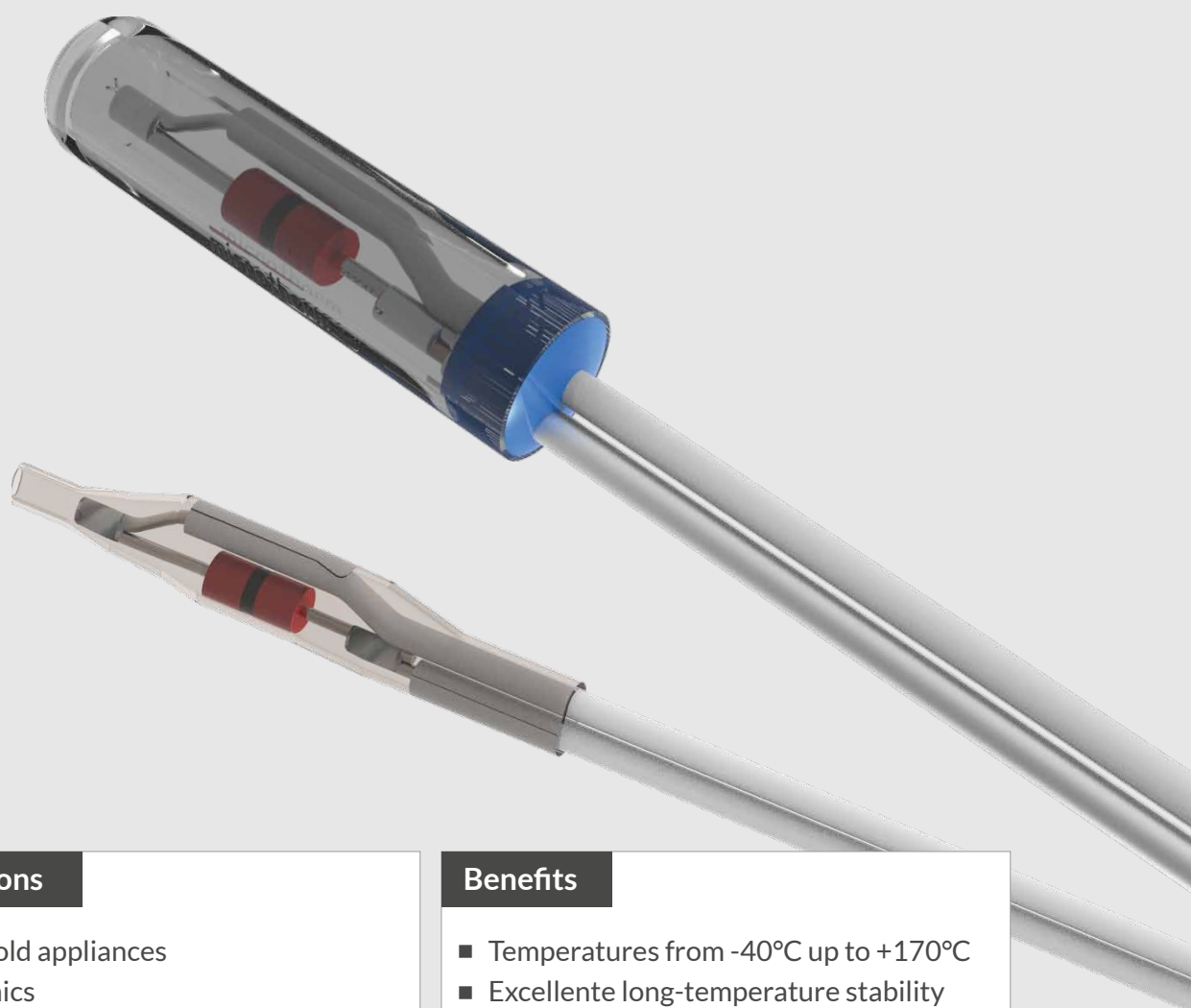


temperature sensor

Type

STS1



Applications

- Household appliances
- Electronics
- Engineering
- Automotive

Benefits

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

Description

Sensors of the STS type series are characterized by a temperature curve which is very similar to KTY sensors showing a positive temperature coefficient. The STS1 is a suitable alternative to former product KTY84-130. Available standard executions are shrink-sleeve or PPS housing package, beside these there are manifold customized solutions on hand.

technical data

ratings	type
	STS1
typical resistance at 100°C (±3%)	1000 Ω
operating temperature range	-40°C ... +170 (190)°C
minimum insulation resistance (100V _{DC})	100 MΩ
operating current	1 mA
maximum rated power	10 mW

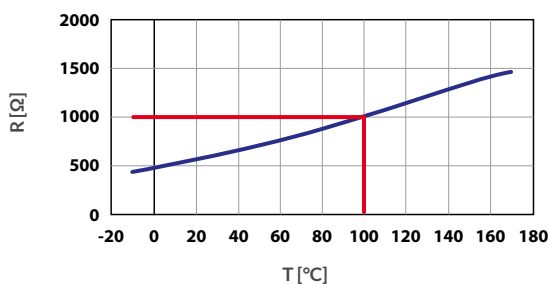


standard types

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	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
min.	414	452	493	537	582	629	678	733	788	846	907	970	1030	1094	1162	1227	1290	1346	1396
typ.	435	475	517	562	608	656	706	761	817	875	937	1000	1064	1132	1204	1274	1341	1402	1457
max.	456	498	541	587	634	683	734	789	846	904	967	1030	1098	1170	1246	1321	1392	1458	1518



ordering example

STS1	1000	3	L360	500	G918
					Housing number
					Length of leads (± 10 mm)
					Leads white, AWG24, ETFE
					Tolerance (%)
					R[Ω] at 100 °C
					Type of sensor

Remark: Values of electric resistance correspond almost exactly to KTY84. Above 170°C the linearity can differ.

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