

Applications

- Washing machines
- Dish washers
- Tumble-dryers
- Water boilers

Features

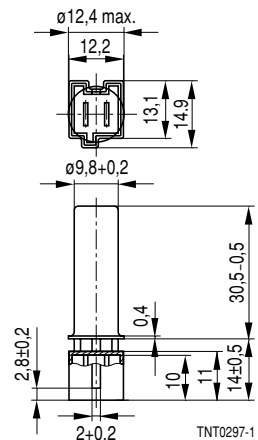
- Suitable for use in corrosive environments
- Compact stainless steel case
- FASTON 5 plug terminals
(DIN 46 244/4,8 × 0,8)
 $R_{is} > 1000 \text{ M}\Omega$ ($V = 100 \text{ VDC}$)
 $V_{is} = 3750 \text{ VDC}$ ($t = 1 \text{ s}$)
- Cost-effective ready-to-use sensor

Options

Alternative resistance ratings,
rated temperatures and resistance
tolerances available on request

Delivery mode

Bulk



Dimensions in mm
Approx. weight 10 g

Climatic category (IEC 60068-1)		10/100/56	
Max. power at 25 °C	P_{25}	500	mW
Resistance tolerance	$\Delta R_N/R_N$	± 2 %	
Rated temperature	T_N	80	°C
B value tolerance	$\Delta B/B$	± 1,5 %	
Dissipation factor (in water)	δ_{th}	approx. 20	mW/K
Thermal time constant (in water)	τ_a	approx. 20	s
Heat capacity	C_{th}	approx. 500	mJ/K

R_{80}	R_{25}	No. of R/T characteristic	$B_{25/100}$	Ordering code
Ω	Ω		K	
1704	11982	2901	3760	B57276K0123A027

Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature $T: 100\text{ }^{\circ}\text{C}$ $t: 1000\text{ h}$	< 2 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: $40\text{ }^{\circ}\text{C}$ Relative humidity of air: 93 % Duration: 56 days	< 1 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: $-10\text{ }^{\circ}\text{C}$ Upper test temperature: $100\text{ }^{\circ}\text{C}$ Number of cycles: 10	< 1 %	No visible damage
Endurance		$P_{\max}: 500\text{ mW}$ $t: 1000\text{ h}$	< 2 %	No visible damage
Long-term stability (empirical value)		$T: 100\text{ }^{\circ}\text{C}$ $t: 10\,000\text{ h}$	< 3 %	No visible damage
Robustness of terminations	DIN 46 249	Pull-out force (both connectors together) $F = 50\text{ N}$		No visible damage

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