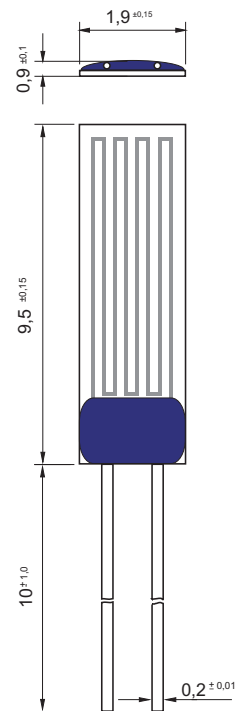


F series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White Goods, HVAC, Energy Management, Medical and Industrial equipment.

Nominal Resistance R_0	Tolerance	Order Number Blister Reel
100 Ohm at 0°C for M-FK 1020 1 Pt 100	DIN EN 60751, class B	32 208 280
	DIN EN 60751, class A	32 208 429
	DIN EN 60751, class 1/3 B	32 208 428
500 Ohm at 0°C for M-FK 1020 1 Pt 500	DIN EN 60751, class B	32 208 285
1000 Ohm at 0°C for M-FK 1020 1 Pt 1000	DIN EN 60751, class B	32 208 286
	DIN EN 60751, class A	32 208 439
	DIN EN 60751, class 1/3 B	32 208 483

The measuring point for the nominal resistance is situated at 8 mm from the end of the sensor body



- Specification** : DIN EN 60751 (according to IEC 751)
- Temperature range** : -70°C to +500°C (continuous operation)
 - Tolerance class B - 70 °C to + 500 °C
 - Tolerance class A - 30 °C to + 350 °C
 - Tolerance class 1/3 B 0 °C to + 100 °C
- Temperature coefficient** : $T_c = 3850 \text{ ppm/K}$
- Leads** : platinum clad nickel wire
- Longterm stability** : max. R_0 -drift 0,04% after 1000 h at 500 °C
- Vibration resistance** : at least 40 g acceleration at 10 to 2000 Hz
- Shock resistance** : at least 100 g acceleration with 8ms half sine wave
- Environmental conditions** : unhused for dry environments only
- Insulation resistance** : > 10 MΩ at 20 °C; > 1 MΩ at 500 °C
- Self Heating** : 0,2 K/mW at 0 °C
- Response time** : water current ($v = 0,4 \text{ m/s}$): $t_{0,5} = 0,2 \text{ s}$; $t_{0,9} = 0,4 \text{ s}$
 air stream ($v = 1 \text{ m/s}$): $t_{0,5} = 4,2 \text{ s}$; $t_{0,9} = 12,7 \text{ s}$
- Measuring current** : 100 Ω: 1,0 to 3,0 mA
 500 Ω: 1,0 mA
 1000 Ω: 0,3 to 1,0 mA