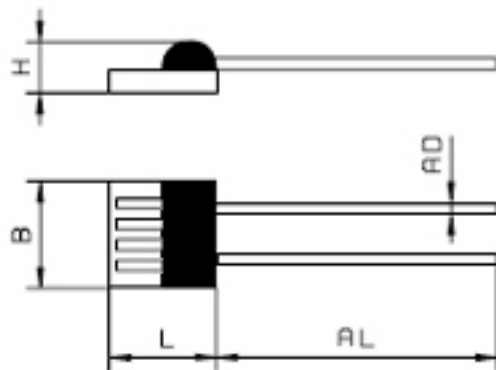


## M-FK 222 platinum temperature sensor in thin-film technology

F series platinum temperature sensors are characterized by long-term stability, precision over a broad temperature range and compatibility. They are used in particular for applications with high consumption volumes, typically in the automotive, white goods, HVAC and energy generation sectors as well as in medical and industrial equipment.

<b>Specification</b>	DIN EN 60751
<b>Temperature range</b>	-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
<b>Temperature coefficient</b>	TCR = 3850 ppm/K
<b>Leads</b>	Nickel platinum-clad wire
<b>Long-term stability</b>	Max. $R_0$ drift 0.04% after 1000 h at 500°C
<b>Vibration resistance</b>	At least 40 g acceleration at 10 to 2000 Hz
<b>Shock resistance</b>	At least 100 g acceleration with 8 ms half sine wave
<b>Ambient conditions</b>	Use unprotected only in dry environments
<b>Insulation resistance</b>	> 10 MΩ at 20°C; > 1 MΩ at 500°C
<b>Measuring current</b>	100 Ω: 0.1 to 0.3 mA



Order no. Vacuum Packaging	Nominal resistance  Ω at 0 °C	Dimensions in mm					Self heating K/mW at 0 °C	Response time in seconds			
		L	B	H	AL	AD		Water v = 0.4 m/s		Air v = 1 m/s	
								t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
32 208 548	100	2.3	2.1	0.8	10	0.2	0.4	0.2	0.4	3.0	9.0
32 208 550	100	2.3	2.1	0.8	10	0.2	0.4	0.2	0.4	3.0	9.0
32 208 551	100	2.3	2.1	0.8	10	0.2	0.4	0.2	0.4	3.0	9.0

Dimension tolerance: L = ±0.15, B = ±0.2, H = +0.2/-0.1, AL = ± 1.0, AD = ±0.01