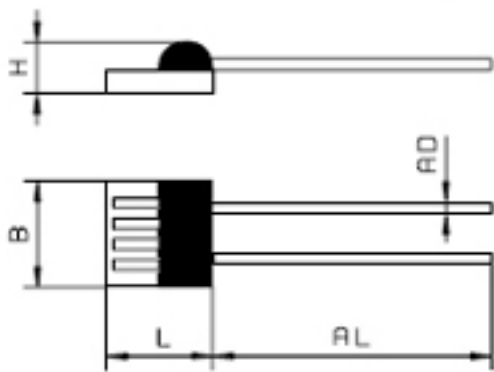


M-FK 220 platinum temperature sensor in thin-film technology

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.

Specification	DIN EN 60751
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	TCR = 3850 ppm/K
Leads	Nickel platinum-clad wire
Long-term 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, depending on mounting method
Shock resistance	At least 100 g acceleration with 8 ms half sine wave, depending on mounting method
Ambient conditions	Use unprotected only in dry environments
Insulation resistance	> 10 M Ω at 20°C; > 1 M Ω at 500°C
Measuring current	100 Ω : 0.1 to 0.3 mA



Order no. Blister reel	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			
							$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$			
32 208 440	100	2.3	1.9	0.8	10	0.2	0.4	0.2	0.4	3.0	9.0		
32 208 465	100	2.3	1.9	0.8	10	0.2	0.4	0.2	0.4	3.0	9.0		
32 208 466	100	2.3	1.9	0.8	10	0.2	0.4	0.2	0.4	3.0	9.0		

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