

Data sheet

Temperature sensor

EKS 111



PTC temperature sensor.

The sensor can be used for measuring air temperatures in the following areas:

- Refrigeration
- Air conditioning
- Heating

PTC characteristic matches controllers types EKC 101, EKC 201, EKC 301, CC and AK.

The sensor may not be used for food safety logs or regulation of superheat.

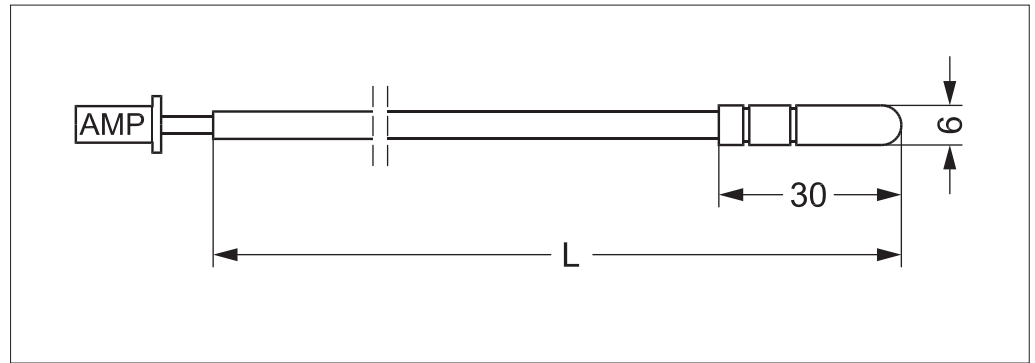
Features

- The sensor is based on a PTC element with a resistance of 990 ohm at 25 °C, with a degree of accuracy of $\pm 1\%$
- Temperature range: -55 – 80 °C
- Enclosure: IP67
- Connection: 2-wire PVC cable
- For use with controls in the EKC series

Technical data

Nominal resistance	990 ohm at 25°C
Degree of accuracy	Class B (±1%)
Temperature range, sensor element	-55 – 155°C
Temperature range, for cable	-30 – 80°C
Cable material	PVC
Sensor tube	Stainless steel AISI 304
Time constant	30 seconds
Insulation resistance	DIN EN60751
Density	IP67
AMP-Plug	AMP ital mod 2, housing 280 358, Crimp contact 280 708-2

R (Typ.) [Ohm]	Temp. [°C]	Error [K]	Temp. [°F]
1679	100	±3.5	212
1575	90		194
1475	80		176
1378	70		158
1286	60		140
1196	50		122
1111	40	±1.3	104
1029	30		86
990	25		77
951	20		68
877	10		50
807	0		32
740	-10		14
677	-20		-4
617	-30		-22
562	-40		-40
510	-50	±3.0	-58
485	-55		-67



Ordering

Type	Sensor	Cable length (L)	Number	Code no.	
EKS 111	PTC	990 ohm / 25°C	1.5 m	1	084N1178
				150	084N1161
			3.5 m	1	084N1179
				150	084N1163
			6 m	1	084N1180
				80	084N1173
			8.5 m	60	084N1168
				1	084N1181
			1.5 m with AMP-plug	150	084N1174
				1	084N1182
			3.5 m with AMP-plug	150	084N1170
				1	084N1177
			6 m with AMP-plug	80	084N1171

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