

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.

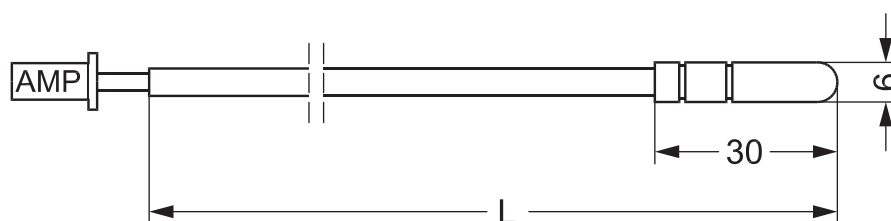
The sensor may not be used for food safety logs or regulation of superheat.

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	R (Typ.) [Ohm]	Temp. [°C]	Error [K]	Temp. [°F]
Degree of accuracy	Class B (±1%)	1679	100	±3.5	212
Temperature range, sensor element	-55 – 155 °C	1575	90		194
Temperature range, for cable	-30 – 80 °C	1475	80		176
Cable material	PVC	1378	70		158
Sensor tube	Stainless steel AISI 304	1286	60		140
Time constant	30 seconds	1196	50		122
Insulation resistance	DIN EN60751	1111	40		104
Density	IP67	1029	30		86
AMP-Plug	AMP ital mod 2, housing 280 358, Crimp contact 280 708-2	990	25	±1.3	77
		951	20		68
		877	10		50
		807	0		32
		740	-10		14
		677	-20		-4
		617	-30		-22
		562	-40		-40
		510	-50		-58
		485	-55	±3.0	-67



Ordering

Type	Sensor	Cable length (L)	Number	Code no.
EKS 111	PTC	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
		1.5 m with AMP-plug	1	084N1181
			150	084N1174
		3.5 m with AMP-plug	1	084N1182
			150	084N1170
		6 m with AMP-plug	1	084N1177
			80	084N1171