

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.

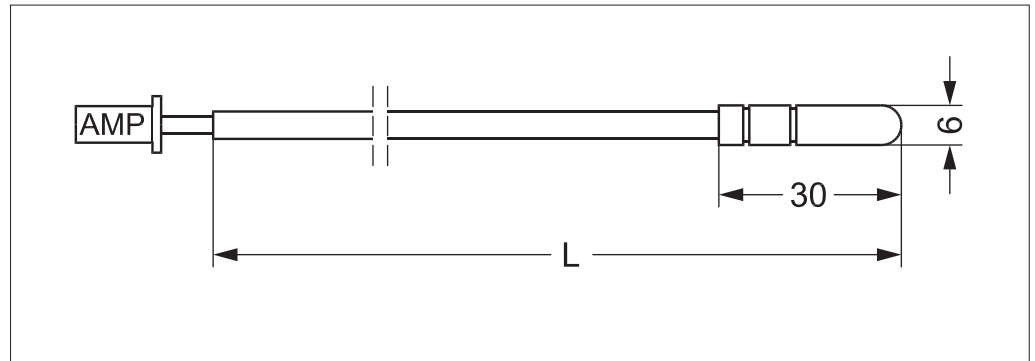
### Features

- 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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.