

Temperature sensor

EKS 211

Description

The sensor can be used for measuring air temperatures in the following areas: Refrigeration, Air conditioning and Heating. NTC characteristic matches controllers type EKC, ERC21x and case controllers. The sensor may not be used for food safety logs and regulation of superheat.

Features & benefits

- Sensor element type: NTC (Negative Temperature Coefficient)
- Cable type: PVC
- Cable length: 1.5 – 6 m
- Electrical connection: cable with pins

Product code numbers

Type	Sensor element type	Measuring range [°C] [min]	Measuring range [°C] [max]	Sensor elem. resistance [Ohm]	Cable length [m]	Code number
EKS 211	NTC	-40	80	5000	1.500	084B4403
EKS 211	NTC	-40	80	5000	3.500	084B4404
EKS 211	NTC	-40	80	5000	1.500	084N1220
EKS 211	NTC	-40	80	5000	3.500	084N1221
EKS 211	NTC	-40	80	5000	3.500	084N1231
EKS 211	NTC	-40	80	5000	6.000	084N3211

Product details

General data

Table: Technical data

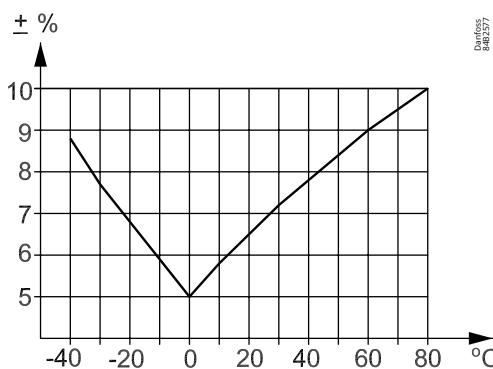
Features		Description
Nominal resistance		5000 ohm at 25 °C
Temperature range		-40 – +80 °C
Cable material		PVC, 2 × 0.22 mm ²
Sensor housing		PBT (Thermo-Plastic Polyester)
Time constant	Water	25 seconds
	Air	80 seconds
Density		IP 67

Pressure and temperature data

Table: Temperature data

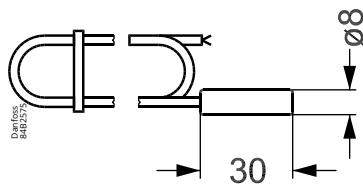
R_nom Ohm	Temp. °C	Temp. °F
631.0	80	176
743.2	75	167
878.9	70	158
1044	65	149
1247	60	140
1495	55	131
1803	50	122
2186	45	113
2665	40	104
3266	35	95
4029	30	86
5000	25	77
6246	20	68
7855	15	59
9951	10	50
12696	5	41
16330	0	32
21166	-5	23
27681	-10	14
36503	-15	5
48614	-20	-4
65333	-25	-13
88766	-30	-22
121795	-35	-31
169157	-40	-40

Figure: Tolerance



Dimensions

Figure: Dimensions



Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
UA Declaration	Danfoss UA 9025	Danfoss	UA RoHS
UA Declaration	Danfoss UA 2024-07-25 cooling sensors	Danfoss	LVD
Manufacturer's Declaration	Danfoss MD 084R1022.01	Danfoss	China RoHS
Manufacturer's Declaration	Danfoss MD 087R0017.02	Danfoss	Simples apparatus
EU-UK Declaration	Danfoss EU-UK 084R1019.04	Danfoss	UK RoHS
Export Control Declaration	Pressure & Temperature Sensors	Danfoss	

Contact details

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