

Technical brochure

Temperature sensor NTC 10 Kohm type EKS 221



NTC temperature sensor for temperature measurements in the following areas:

- Refrigeration
- Air conditioning
- Heating

The sensor characteristic matches to:

- OPTYMA room controllers
- MCX unit controllers

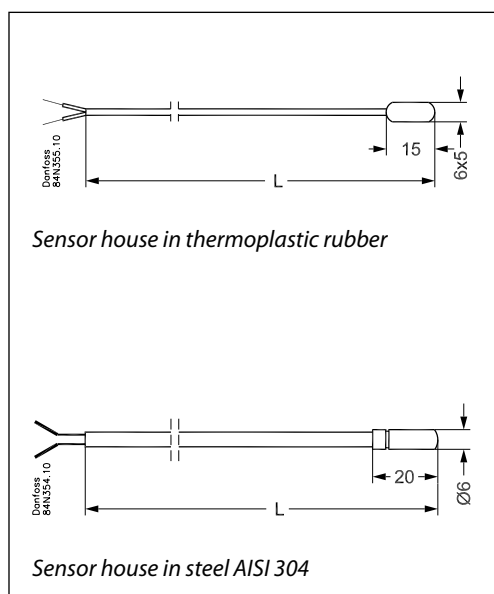
The sensor is available in two versions:

- Sensor house in thermo plastic rubber and flat cable
- Sensor house in steel and with round cable

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Technical data

Sensor house	Thermoplastic rubber	Steel AISI 304
Temperature range	-50 to 120°C	-50 to 110°C
Cable material	Thermoplastic rubber, flat, 2 × 0.25 mm ²	Thermoplastic rubber, round, 2 × 0.25 mm ²
Wire ends	Tin plated	Nipples
Time constant, water 2 m/s	10 seconds	10 seconds
IP Class	IP 67	IP 68
Nominal resistance	10000 ohm at 25°C	
Tolerance	+/- 1%	
Beta value	3435 at 25/85 °C	
Tolerance at beta value	+/- 1%	



R_nom Ohm	Temp. °C	Temp. °F
595	120	248
757	110	230
972	100	212
1265	90	194
1667	80	176
2228	70	158
3020	60	140
4160	50	122
5827	40	104
8313	30	86
10000	25	77
12091	20	68
17958	10	50
27278	0	32
42450	-10	14
67801	-20	-4
111364	-30	-22
188500	-40	-40

Ordering

Type	Sensor element	Sensor house	Cable, L=	Number	Code no.
EKS 221	NTC 10000 ohm / 25°C	Thermo plastic rubber	3.5 m	150	084N3206
				1	084N3210
		Steel AISI 304	1.5 m	50	084N3208
				1	084N3209