

Data sheet

Color coded temperature sensor

AKS 11



Pt 1000 temperature sensor.

The sensor can be used for temperature logging on monitoring in conjunction with Danfoss controllers in the following areas:

- Refrigeration
- Air conditioning
- Heating

The sensor comes adjusted and complies with the requirements to tolerance in EN 60751, class B.

Features

- Temperature range -40 – 100 °C
- The sensors are adjusted and comply with the requirements to tolerance in EN 60751, class B

Technical data

Nominal resistance	1000 ohm at 0 °C	R (Typ.) [Ohm]	Temp. [°C]	Temp. [°F]
Measuring accuracy	Class B	1117	30	86
Temperature range	-40 – 100 °C	1078	20	68
Cable material	PVC, 2 x 0.22 mm ²	1039	10	50
Sensor clips	AISI 304 + PA6	1000	0	32
Time constant	10 sec. on Cu tube	961	-10	14
Enclosure	IP67	922	-20	-4
AMP-Plug (selected sensors only)	AMP ital mod 2, Housing 280358-0 Crimp contact 280708-2	882	-30	-22

Cable resistance @ 20 °C:

PVC 2 x 0.22 mm² (Resistance per conductor R1 = 78.2 Ohm/km)

The constant conductor resistance: $R = 2 \times R1$

The total resistance in the sensor circuit is therefore: $R + RTD$

Ordering

Type	Cable	Packing Qty.	Code no.
AKS 11 Single type Black cable	3.5 m	1	084N0003
	5.5 m	1	084N0005
	8.5 m	1	084N0008
AKS 11 Industrial Pack Black cable	1.5 m	150	084N0026
	3.5 m	110	084N0027
	5.5 m	70	084N0028
	8.5 m	50	084N0029
AKS 11 Single AMP plug Black cable	5.5 m	1	084N0043
	8.5 m	1	084N0044
AKS 11 Industrial Pack AMP plug Black cable	3.5 m	110	084N0050
	5.5 m	70	084N0051
	8.5 m	50	084N0052

AKS 11 Color coded cable	Blue	S1 - Coil in	8.5 m	1	097U0063
	Red	S2 - Coil out	8.5 m	1	097U0064
	Purple	S3 - Return air	8.5 m	1	097U0065
	Green	S4 - Discharge air	8.5 m	1	097U0066
	Orange	S5 - Defrost terminator	8.5 m	1	097U0067