

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

Cable resistance @ 20 °C:  
 PVC 2 x 0.22 mm<sup>2</sup> (Resistance per conductor R1 = 78.2 Ohm/km)  
 The constant conductor resistance: R = 2 x 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	<b>084N0003</b>
	5.5 m	1	<b>084N0005</b>
	8.5 m	1	<b>084N0008</b>
AKS 11 Industrial Pack Black cable	1.5 m	150	<b>084N0026</b>
	3.5 m	110	<b>084N0027</b>
	5.5 m	70	<b>084N0028</b>
	8.5 m	50	<b>084N0029</b>
AKS 11 Single AMP plug Black cable	5.5 m	1	<b>084N0043</b>
	8.5 m	1	<b>084N0044</b>
AKS 11 Industrial Pack AMP plug Black cable	3.5 m	110	<b>084N0050</b>
	5.5 m	70	<b>084N0051</b>
	8.5 m	50	<b>084N0052</b>

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

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