

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 | | | |
| Temperature range | -40 – 100 °C | 1117 | 30 | 86 |
| Cable material | PVC, 2 x 0.22 mm ² | 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 mm² (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 | 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 |