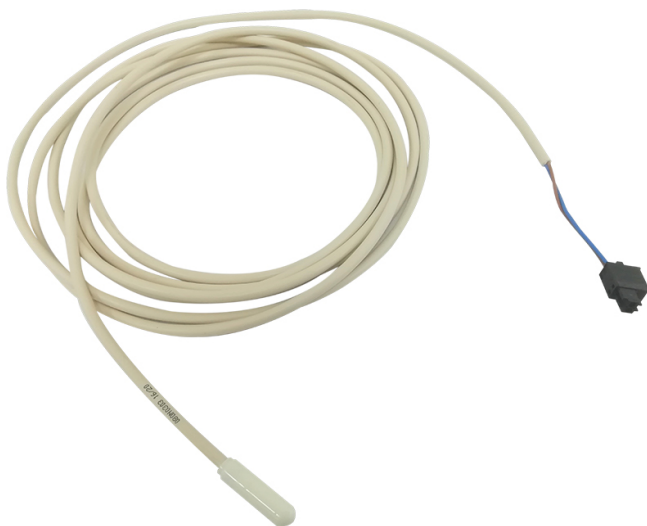**Data Sheet**

Temperature sensor
Type **NTC 10K**

NTC 10K temperature sensor for EET controllers
For commercial refrigeration applications

NTC (Negative Temperature Coefficient) temperature sensors change resistance with temperature in a manner compatible with the controller software.

Features:
- High accuracy in temperature measurement and close tolerances ensure improved control
- Plastic moulded sensor case
- Insulated connecting cable
- Various cable lengths available
- Supplied with spring loaded Plug and socket connector
- Markings on cable for easy identification during assembly
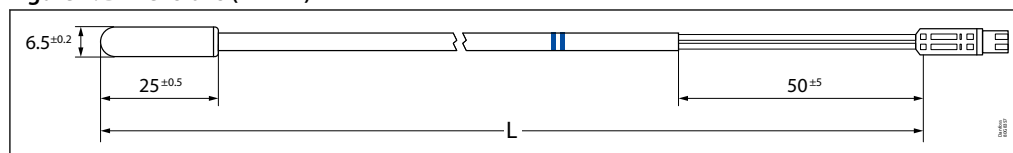
Product specification

Technical data

Table 1: Technical data

Features	Description
Operating temperature range	-40 – +80 °C
Thermistor	Encapsulated in plastic housing
Connecting cable	PVC double insulated
Connector	Plug in type [Degson 15EDGKD-2.5-02P13-14A(H)
Climatic category (IEC 60068-1)	40/80/56
Rated resistance at 0 °C	32654 Ω +/- 2%
Rated resistance at 25 °C	10000 Ω
Beta value (B(25/100))	3980 [K] +/-1.5[%]
Insulation resistance	>100 MΩ
Voltage proof (t = 1s)	1500 V AC
Thermal time constant (in water)	Approx. 25 sec.
Thermal time constant (in air)	Approx. 65 sec.
Typical applications	Air sensing, evaporator sensing, condenser sensing

Dimensions

Figure 1: Dimensions (in mm)

Ordering

Table 2: Ordering

Type	Length (L)	Identification Marking	I-Pack Qty	Code No.
NTC10K Cabinet Sensor	1000 mm	No Marking	150	080N0300
NTC10K Cabinet Sensor	1500 mm	No Marking	150	080N0301
NTC10K Cabinet Sensor	2000 mm	No Marking	150	080N0302
NTC10K Cabinet Sensor	3000 mm	No Marking	150	080N0303
NTC10K Cabinet Sensor	4000 mm	No Marking	150	080N0332
NTC10K Defrost Sensor	1500 mm	2 Blue Stripes	150	080N0304
NTC10K Defrost Sensor	2000 mm	2 Blue Stripes	150	080N0305
NTC10K Defrost Sensor	3000 mm	2 Blue Stripes	150	080N0306
NTC10K Defrost Sensor	4000 mm	2 Blue Stripes	150	080N0333
NTC10K Condenser Sensor	1000 mm	1 Blue Stripe	150	080N0307
NTC10K Condenser Sensor	3000 mm	1 Blue Stripe	150	080N0308

ⓘ **NOTE:**

There are no difference in connector or functionalities between above sensor types. It is just a way to identify the cable based on markings and length, but they are interchangeable.

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