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DK 7030.110
CMC III sensors

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FRIEDHELM LOH GROUP

DK 7030.110 - CMC III sensors

CMC III temperature sensor

Features

Model No.	DK 7030.110
Design	Temperature sensor
Benefits	Fast connection and automatic detection via plug & play Power is supplied via the CAN-BUS interface.
Applications	Enclosure monitoring in IT, industry and facility management Monitoring of enclosures, rooms and containers in the IT environment
Function principle	Settings can be made via the CMC III processing unit or IoT interface The CMC III temperature sensor monitors the ambient temperature in the enclosure. With a passive airflow the integrated sensor in the enclosure can be used. For applications without an active airflow, the external NTC sensor provided must be connected. Measurement range for external sensors: -40 °C...+80 °C
Material	Plastic Front: Smooth Enclosure: Textured
Colour	Front: RAL 9005 Enclosure: RAL 7035
Supply includes	Sensor Mounting plate Assembly parts External temperature sensor with connection cable and connector NTC sensor, length 1.80 m max. cable length 2 m
Connection to the CAN bus	Direct
Interfaces	2 x RJ45 CAN bus Jack

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Features

No. of participants per IoT interface (max.)	32
No. of participating PU compact (max.)	4
No. of participating PU (max.)	32
No. of PDU devices (max.)	16
Measuring technique	internal NTC resistor external NTC resistor
Dimensions	Width: 80 mm Height: 30 mm Depth: 40 mm
Operating temperature range	0 °C...55 °C
Ambient humidity (non-condensing)	5...95 %
Packs of	1 pc(s).
Net weight	0.18 kg
Gross weight	0.18 kg
PCF per pack (cradle-to-gate)	0.8 kg CO2 eq (Cat B)
CRA risk class	Default (Low Risk)
Note on PCF category	Category B: PCF value (cradle-to-gate) based on the product weight, approximately calculated and self-declared
Customs tariff number	90269000
ETIM 9	EC002627
ECLASS 8.0	27189253
Product description	DK CMC III Temperature sensor, WHD: 80x28x40 mm

Approvals

Approvals	UL + C-UL (listed)

Approvals

Explanations	Manufacturer's declaration Declaration of conformity

Tender text

7030.110
CMC III temperature sensor with CAN bus
Packs of 1
Compact plastic housing with ventilated front in RAL 9005.
Housing in RAL 7035,
The sensor has two RJ45 connections with an integrated CAN bus. The sensor is automatically detected by the
CMC III system, the Processing Unit, and is provided with a sequential number in the bus sequence. Integrated multi-colour LED as status display.
An NTC temperature sensor is integrated into the sensor housing to measure the airflow temperature.
An external NTC temperature sensor with connection cable is also enclosed. When this external sensor is plugged in, the internal temperature sensor is switched off.
The power supply is ensured by connection to the CAN bus for the Processing Unit.
The warning and alarm limit values can be set via the software for the CMC III Processing Unit, however they are saved in the sensor itself.
Technical specifications:
NTC resistor: 10 k Ohm at 25 °C
Temperature measurement range (internal sensor): 0 °C to 55 °C
Temperature measurement range (external sensor): -40 °C to 80 °C
Measurement precision: +/- 2 °K between 10 °C and 40 °C for external sensor
Resolution: 0.1 °K
Jack for external sensor: 1
CAN bus jacks RJ45: 2
Protection category: IP 30 to IEC 60 529
Temperature application range:
0 °C to 55 °C
Humidity range:
5% to 95% relative humidity, non-condensing
WxHxD: 80 x 28 x 40 mm
Included in the pack: Sensor, temperature sensor with 2 m connection cable and plug, quick reference guide and universal mounting set

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